


ENGINEER'S REPORT

TOWN OF HIGHLAND
SULLIVAN COUNTY, NY

SULLIVAN COUNTY ENVIRONMENTAL BASELINE
TESTING

September 2018

PREPARED BY

 Engineering and
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EXECUTIVE SUMMARY

In this report, KC Engineering and Land Surveying, P.C. (KC) presents the results of the baseline testing for air quality, sound monitoring, and water quality associated with the proposed Highland Compressor Station (Station), a new compressor station to be owned by Millennium Pipeline Company, L.L.C. (Millennium). The testing was conducted in the Town of Highland between October 2017 and July 2018, divided into three separate sampling rounds. The purpose of the baseline testing was to:

- Establish a baseline for air quality, sound levels and water quality for the area in the vicinity of the proposed station.
- Use the baseline as a reference for any potential future study performed once the station will be in use.

The results obtained through the testing for air, sound and water were as expected for the area.

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ACRONYMS AND ABBREVIATIONS

dB	Decibels
dba	A-Weighted Scale Decibels
County	County of Sullivan
CO	Carbon Monoxide
COC	Chain of Custody
EPA	Environmental Protection Agency
Fe	Iron
GIS	Geographic Information System
Hg	Mercury
H ₂ S	Hydrogen Sulfide
IOC	Inorganic Compound
KC	KC Engineering and Land Surveying, P.C.
L _{eq}	Total Sound Energy Over the Period of Interest
MCL	Maximum Contaminant Level
Millennium	Millennium Pipeline Company LLC
NA	Not Available
NO	Nitric Oxide
NO ₂	Nitrogen Dioxide
NSA	Noise Sensitive Area
NSDWR	National Secondary Drinking Water Regulation
O ₂	Oxygen
O ₃	Ozone
Pine	Pine Environmental LLC
Pb	Lead
PDF	Portable Document Format
PM	Particulate Matter
ppb	Parts per billion ($\mu\text{g/L} = \text{mg/m}^3$)
ppm	Parts per million (mg/L)
SMCL	Secondary Maximum Contaminant Level
SO ₂	Sulfur Dioxide
SOC	Synthetic Organic Compound
SPL	Sound Pressure Level
Station	Highland Compressor Station
Telemetry	Continuous Real Time Datalogging
VOC	Volatile Organic Compound

1.0 Introduction

The County of Sullivan (County) is a rural community deriving most of its revenue from tourism and agriculture.

The County has enlisted the services of KC Engineering and Land Surveying P.C. (KC) to establish a baseline for air quality, sound levels, and water quality near the proposed Highland Compressor Station (Station); a new compressor station to be owned by Millennium Pipeline Company, L.L.C. (Millennium) in the Town of Highland. The baseline testing was conducted prior to Station activation. The Station will have approximately 22,400 horsepower compressor motor and it will be located approximately equidistant between Millennium's existing Hancock and Minisink compressor stations.

Testing was performed on water samples taken from wells, lakes, and streams. Environmental samples for air and noise were taken, by a combination of individual and continuously monitored sampling.

Three sampling events occurred beginning in October 2017, refer to Table 1: Project Schedule to view testing dates in greater detail.

1.1 Project Objectives

The project's scope was to establish a baseline with regards to the air quality, sound levels, and water quality currently present in the area. Weather data was also monitored during sampling. Sampling locations were selected based on points of interest designated by the County. Testing was conducted in the vicinity of the proposed Highland Compressor Station (Station) to be owned by Millennium.

Water quality baseline testing included groundwater residential well testing and surface water testing. Groundwater requirements included the sampling of three residential wells within one mile range of the facilities. Surfacewater requirements included the testing of Halfway Brook at three points within 0.5 miles of the proposed Station, and the testing of three of the five water bodies in the vicinity of the site.

Noise baseline testing was to be conducted at four equidistant points within 0.25 miles of the Station and at four equidistant points within 0.5 miles of the Station. Noise was sampled at each location for all (3) Rounds.

Air quality baseline testing was to be conducted in four locations within 0.5 miles of the Station each round of sampling.

1.2 Project Schedule

A summary of the project schedule is shown on Table 1 below.

Table 1: Project Schedule

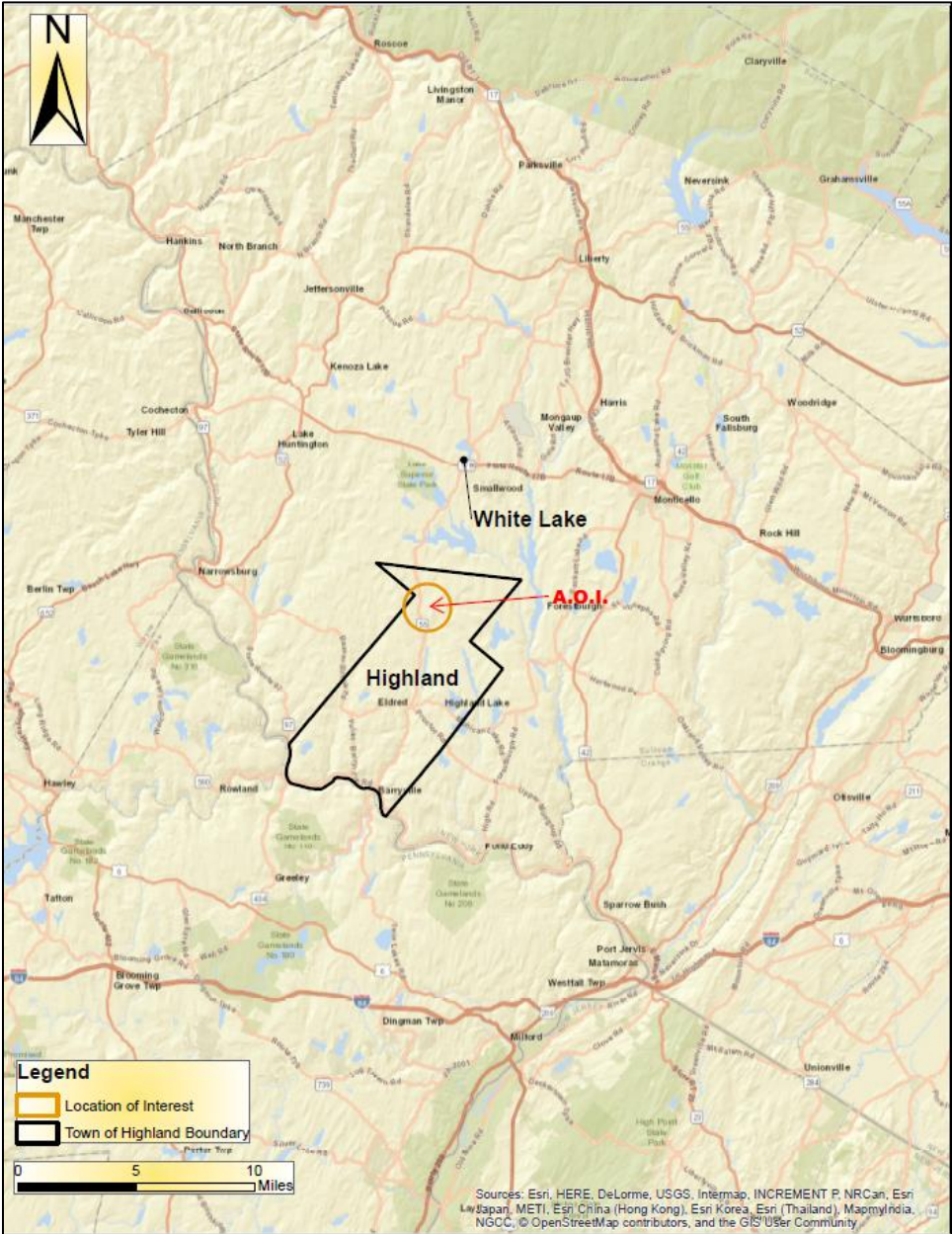
Task Name	Start Date	Completion Date
Step 1: Development a Work Plan	August 2017	September 2017
Step 2: Collection and Review Data and Testing Methods		
First Round of Testing	10/30/17	11/13/17
Second Round of Testing	04/02/18	04/11/18 <i>(Well Sampling: 05/04/18)</i>
Third Round of Testing	07/23/18	07/25/18
Step 3: Final Report	March 2018	September 2018

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1.3 General Project Location

The location of interest is located southwest of the Village of Monticello, seven miles south of White Lake on State Route 55, in the direct vicinity of Kieferle Road as shown in Figure 1: Location of Interest. Sampling points were selected in order to minimize homeowners disturbance, equipment tampering, access to active well locations, and access to water bodies. Water samples were taken under the supervision of a licensed water operator, and pictures containing geographic coordinates were taken to establish precise sampling locations. These can be seen in Appendix E: Site Photos.

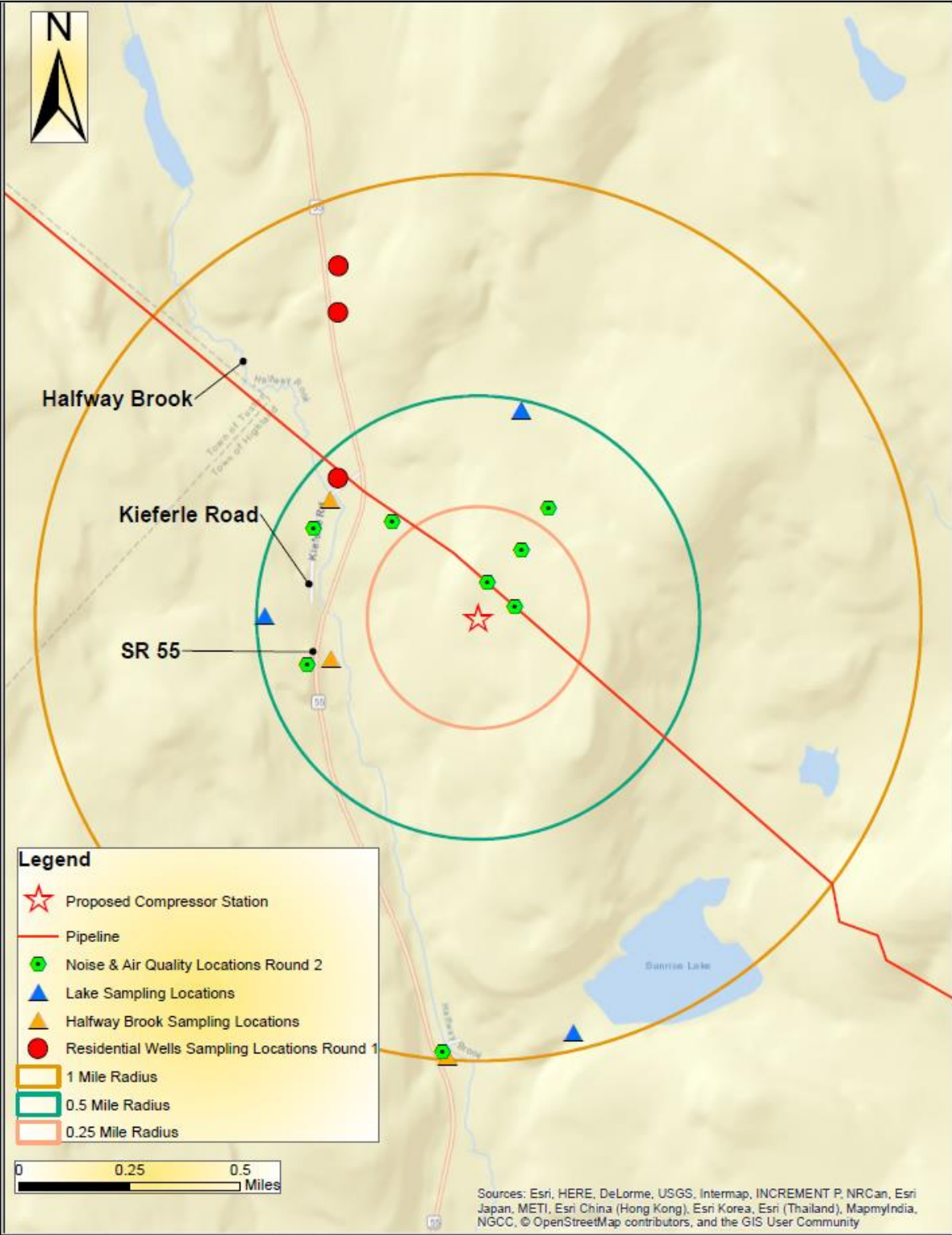
Figure 1: Location of Interest



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Figure 2: Sampling Location Vicinity Map is a close-up map of the area where the testing was conducted.

Figure 2: Sampling Location Vicinity Map



2.0 Equipment Overview

Specialized equipment, provided by Pine Environmental LLC (Pine), was used to perform the majority of the required environmental testing. Refer to Table 2: Equipment Summary for the equipment used. All equipment received was calibrated prior to delivery, refer to Appendix D: Calibration Documents. The Photovac MicroFID was re-calibrated in field conditions prior to sampling. Equipment for sound and air quality monitoring, was capable of continuous real time datalogging (Telemetry – Figure 3: Telemetry Setup). Through the use of a datalogging system, KC was able to acquire more reliable and long-term data. Water sampling was performed and sent to a certified laboratory for testing. Proper chain of custody (COC) procedures were followed by KC staff when collecting the water samples. Table 2, presents a summary of the equipment used for the baseline testing.

Table 2: Equipment Summary

Ambient Sound Sampling	Function
3M Quest SoundPro DL Type 1	Sound Level Meter
Air Quality Monitoring	
DustTrak II	Particulate Matter (PM)
VRAE	Nitric Oxide (NO), Nitrogen Dioxide (NO ₂), Hydrogen Sulfide (H ₂ S)
Photovac MicroFID (<i>Round 1 and 2 Only</i>)	Methane (CH ₄)
Jerome 431-X	Mercury (Hg) Vapor
QRAE III (PGM-2500)	Carbon Monoxide (CO), Oxygen (O ₂)
ToxiRae (PGM-50/2000/7800) (<i>Round 1 and 2 Only</i>)	Sulfur Dioxide (SO ₂)
RKI GX-6000 (<i>Round 3 Only</i>)	CH ₄ , SO ₂
Weather Monitoring	
Weather Station Vantage Pro2 Wireless	Weather Data

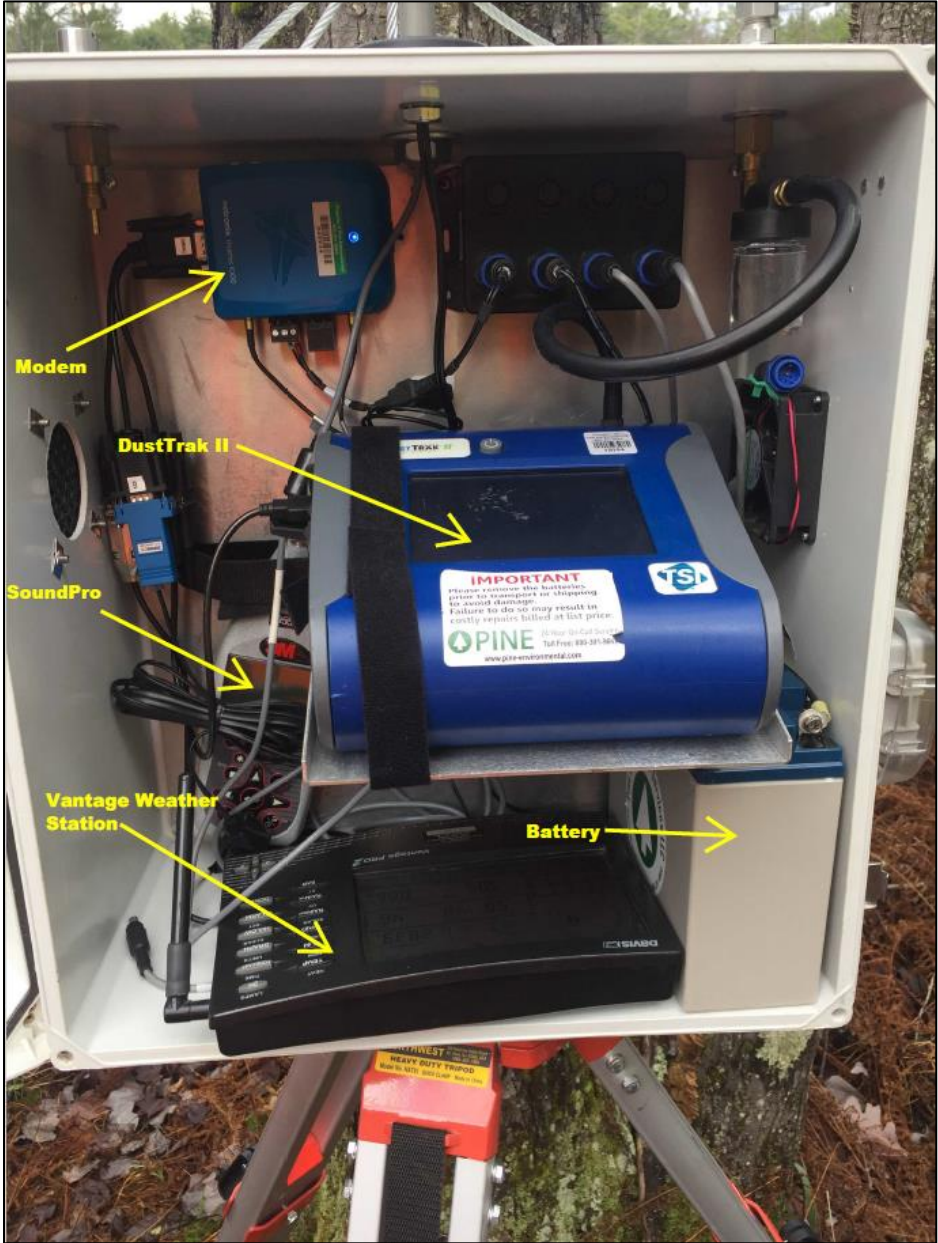
2.1 Telemetry Setup

Figure 3: Telemetry Setup shows the equipment layout. The modem, in the top left corner, was used to transfer the recorded data to the server. The SoundPro, the industry standard device

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for sound sampling produced by 3M and the DustTrak II device used to sample PM in the air, were operating in Telemetry mode for continuous datalogging and the weather station.

Figure 3: Telemetry Setup



3.0 Air Quality Sampling

I. Introduction

Air pollution is defined as foreign matter in the air in high enough concentrations to be harmful to people, plants, animals, or things. Primary air pollutants are directly emitted to the air, while secondary air pollutants are formed by reactions in the atmosphere.

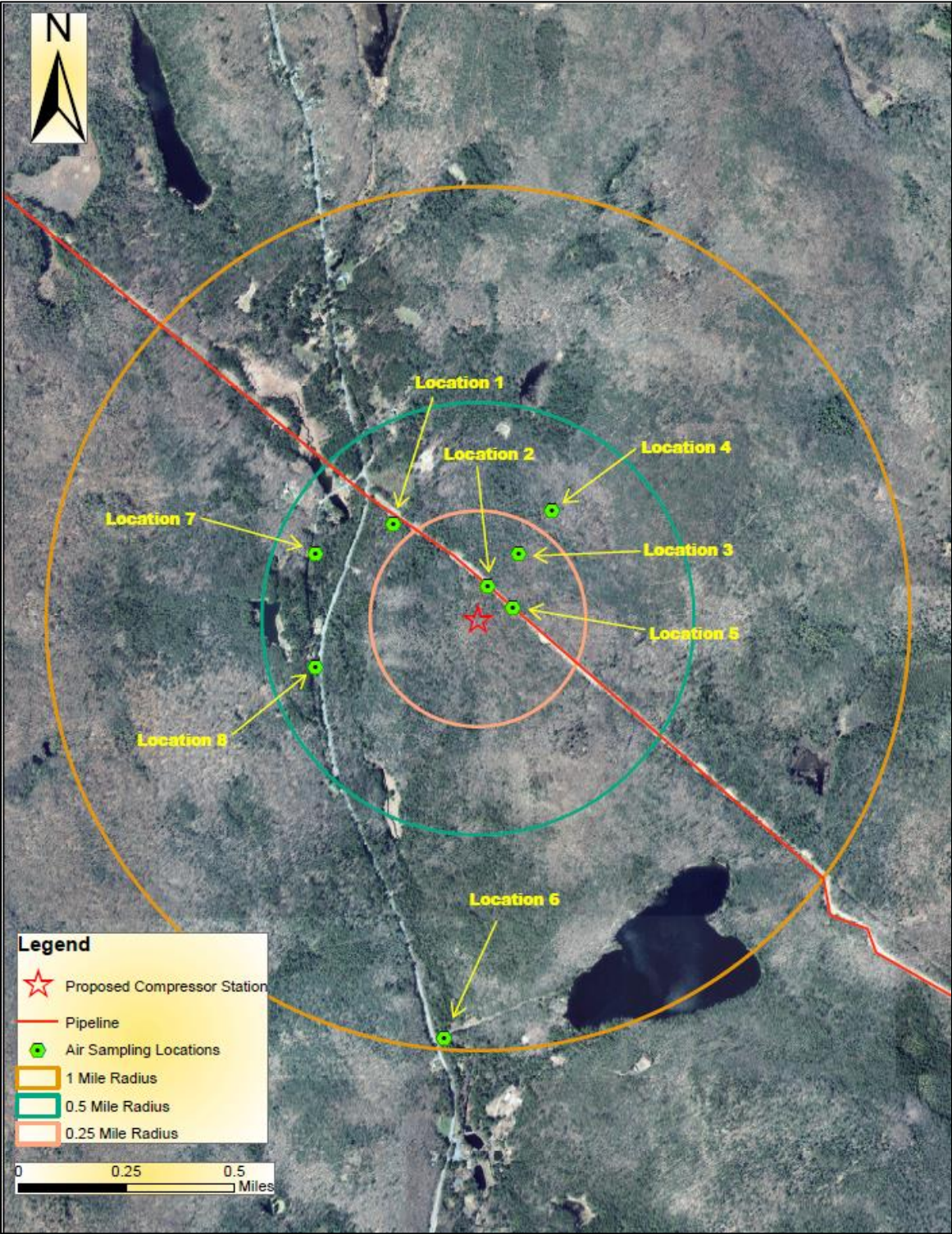
In accordance with the EPA's (Environmental Protection Agency) Clean Air Act, 1990, National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment, two types of national ambient air quality standards are identified. "**Primary standards** provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. **Secondary standards** provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation and buildings."

The six primary air pollutants existing in the air are Carbon Monoxide (CO), Nitrogen Dioxide (NO₂), Sulfur Dioxide (SO₂), Particulate Matter (PM), Lead (Pb), and ground-level Ozone (O₃). CO is a colorless, odorless, and tasteless gas which results from the incomplete combustion of any carbonaceous fuel. NO₂ is formed when any fuel is burned in the air at high enough temperatures. The major source of this is vehicles. SO₂ is produced when a fuel containing sulfur is burned. PM is a term that describes very small diameter solids or liquids suspended in the atmosphere. Lead is a toxic heavy metal, and Ozone is a harmful gas when located at ground level.

Per the Counties' direction, KC monitored four air pollutants CO, NO₂, SO₂, PM. Additionally Oxygen (O₂), Methane (CH₄) and Mercury (Hg) Vapor were monitored. Weather parameters were also recorded. Air quality monitoring was performed in the eight selected locations shown in Figure 4: Air Sampling Locations. Monitoring locations ranged from 450 ft. to 3100 ft. KC followed the county's guidelines for air monitoring to the extent possible given field conditions and project awarded dates.

The first round, air sampling was conducted to establish existing, pre-construction conditions. In Rounds 2 and 3, the station was under construction. Figure 4 presents a map of the air sampling locations.

Figure 4: Air Sampling Location



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II. Air Quality Sampling Approach

Air quality data was collected with equipment provided by Pine Environmental conforming to EPA-SESDPROC-303-R5, Ambient Air Sampling, 2016.

The DustTrak II was used to monitor PM concentrations in parts per billion (ppb) in the telemetry setup. The QRAE III, recorded CO and O₂ and the VRAE, was used to record NO, NO₂ and H₂S.

In Rounds 1 and 2 the ToxiRae was used to record the levels of SO₂ in the air, while in the last Round this was substituted by the RKI GX-6000.

The Photovac MicroFID, used for CH₄, was re-calibrated prior to field testing by the field engineer, following standard calibration procedure for the device. In Round 2, the device could not be used in all locations due to ambient temperature falling below allowable operating temperature. The Photovac MicroFid was substituted by the RKI GX-6000 for the remaining sampling rounds.

When the Photovac MicroFid was used, it was calibrated prior to field testing by the Field Engineer, following standard calibration procedure for the device.

The Jerome 431-X was used to monitor any potential source of Hg vapor in the area. All readings from the one-time reading devices were recorded by the field engineers in a field log book including pictures with location coordinates as shown in Appendix E: Site Photos.

III. Meteorology

Air movements and particles in the air are influenced by meteorological parameters, KC recorded average weather conditions for the areas for each round of testing. The main parameters to be considered throughout air quality monitoring are: wind speed and direction, temperature, humidity, rainfall, and barometric pressure. Wind speed and direction determine the fate of the particles in the air. Temperature plays a role in the chemical reactions that occur in the atmosphere. Humidity, also plays a role in thermal and photochemical reactions in the atmosphere. Rainfall tends to wash PM and dissolves gaseous pollutants out of the atmosphere.

Meteorological data was collected with equipment provided by Pine Environmental conforming to EPA-454/R-99-005 Meteorological Monitoring Guidance for Regulatory Modeling Applications.

A summary of the data collected can be seen in Table 3: Meteorological Summary.

Table 3: Meteorological Summary

	Average Temperature (°F)	Average Wind Speed (mph)	Prevailing Wind Direction	Average Rainfall (in)	Average Humidity (%)	Barometric Pressure (in)
Round 1	49	1.8	NE	0.1	82	28.6
Round 2	31	4.0	W	0	76	28.5
Round 3	73	7.3	SE	0.5	93	28.7

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Table 4/5/6: Air Monitoring for one-time readings devices round 1/2/3 present a summary of the one-time readings data collected.

IV. Air Quality Sampling Collected Data

Table 4: Air Monitoring for One-Time Readings Devices Round 1

Location	CO (ppm)	CH ₄ (ppm)	H ₂ S (ppm)	Hg (mg/m ³)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)	SO ₂ (ppm)
1	0	1.6	0	0	0	0.3	20.3	0
2	0	1.2	0	0	0	0.4	20.1	0
3	0	0.1	0	0	0	0.4	20.3	0
4	0	0	0	0	0	0.4	20.4	0
5	0	0	0	NA ^b	0	0.4	20.9	0
6	0	NA ^a	0	0	0	0.5	20.9	0
7	0	NA ^a	0	0	0	0.4	20.9	0
8	0	NA ^a	0	0	0	0.4	20.4	0

a. Results not available due to device start up failure because of flame not igniting from temperature below operating conditions.

b. Results not available due to battery failure of the device.

Table 5: Air Monitoring for One-Time Readings Devices Round 2

Location	CO (ppm)	CH ₄ (ppm)	H ₂ S (ppm)	Hg (mg/m ³)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)	SO ₂ (ppm)
1	0	NA ^c	0	0	0	0	20.9	0
2	0	NA ^c	0	0	0	0	20.9	0
3	0	NA ^c	0	0	0	0	20.9	0
4	0	0	0	0	0	0	20.9	0
5	0	NA ^c	0	0	0	0	20.9	0
6	0	0	0	0	0	0	20.9	0
7	0	NA ^c	0	0	0	0	20.9	0
8	0	0	0	0	0	0.5	20.9	0

c. Results not available due to device start up failure due to temperature below operating conditions.

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Table 6: Air Monitoring For One-Time Readings Devices Round 3

Location	CO (ppm)	CH ₄ (ppm)	H ₂ S (ppm)	Hg (mg/m ³)	NO (ppm)	NO ₂ (ppm)	O ₂ (%)	SO ₂ (ppm)
1	0	0	0	0	NA ⁵	NA ⁵	20.5	0
2	0	0	0	0	0	0	20.4	0
3	0	NA ^d	0	0	0	0	20.4	0
4	0	NA ^d	0	0	0	0	20.4	0
5	0	NA ^d	0	0	0	0	20.4	0
6	0	0	0	0	NA ^e	NA ^e	20.4	0
7	0	0	0	0	0	0	20.4	0
8	0	0	0	0	NA ^e	NA ^e	20.9	0

d. Results not available due to field constraints in construction zone area.

e. Data not available due to sensor's device malfunction.

Table 7: DustTrak II Average Data summarizes the PM data collected through the testing.

Table 7: DustTrak II Average Data

Location	Round 1 (ppb)	Round 2 (ppb)	Round 3 (ppb)
1	0.007	0.003	0.017
2	0.011	0.005	0.021
3	0.016	0.002	0.021
4	0.018	0.003	0.005
5	0.022	0.004	0.022
6	0.013	0.003	NA ^f
7	0.009	0.003	0.017
8	0.012	0.001	0.003

f. Data not available due to file corruption.

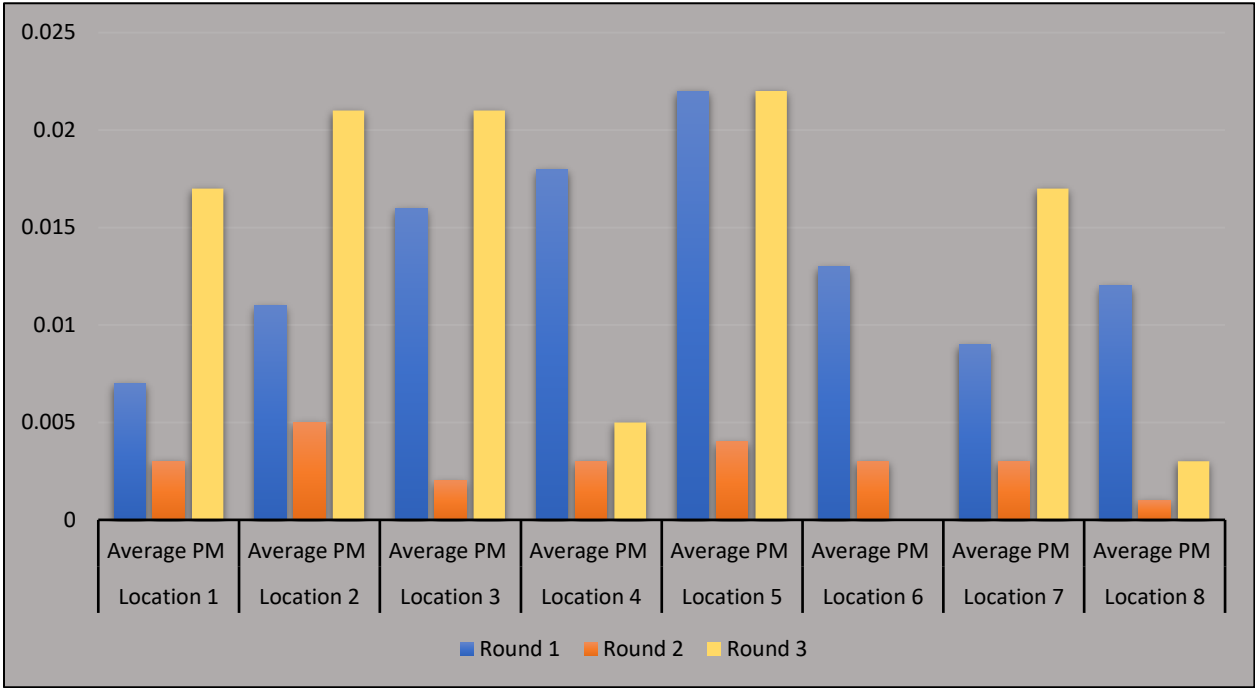
V. Air Quality Sampling Results

As shown in Tables 4, 5, and 6 most pollutants were completely absent from the air in all three rounds. CH₄ was present in locations one, two and three only in the first round of sampling.

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NO₂ was present in all locations in round one, but in round two the levels of the pollutant were 0 in all but location 8. In round three where tested levels were 0. O₂ and PM levels were presented. Figure 6 represents graphically the PM averages that were found in the area. The data collected may be used as a reference for any potential future post-construction study of the area adjacent the Station. Refer to Appendix B: Raw Data for the complete datasets.

Figure 5: Average PM Values



3.1 Ambient Sound Monitoring

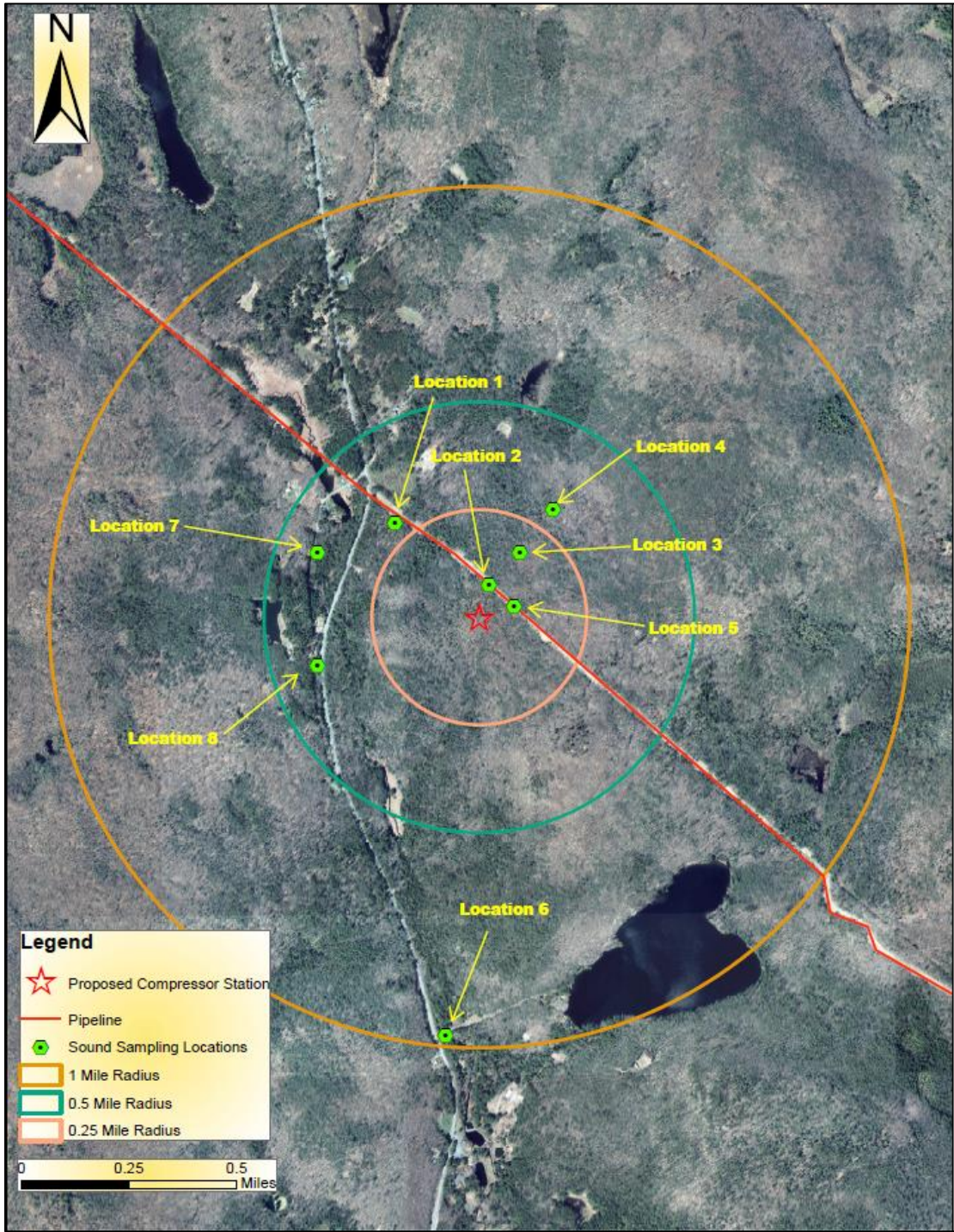
I. Introduction

Noise is defined as any unwanted sound present in the environment. Individuals normally evaluate sound, based on four different criteria. These include loudness, frequency, duration and subjectivity.

When projects similar to a new gas compression unit are proposed, sound levels are often a concern for major stakeholders, particularly for the noise-sensitive areas (NSAs) surrounding the proposed Station. A noise-sensitive area typically represents the nearest house, school, religious building, and/or public building in the vicinity of the proposed facility. As part of the study, sound levels represent existing conditions to establish a baseline.

All three rounds of sampling were conducted before the completion of the compression station. In Round 1, construction of the project had not started. In Rounds 2 and 3, construction was ongoing.

Figure 6: Sound Sampling Locations



II. Sound Monitoring Approach

Sound samples were collected with equipment provided by Pine Environmental conforming to ASTM E-1014-12, Standard Guide For Measurements of Outdoor A-Weighted Sound Levels.

Eight different locations shown in Figure 6: Sound Sampling Locations were monitored for sound levels using a 3M Quest SoundPro DL Type 1 Datalogging sound level meter.

Location 2 is the closest location to the proposed facility being approximately 450 feet away. Locations 7 and 8 are the closest NSAs and they are both residential houses. Location 8 is approximately 2,000 feet from the proposed facility while Location 7 is approximately 2,100 feet away.

The sound level meter in the telemetry set up recorded levels at intervals of 1 minute.

III. Sound Monitoring Data Analysis

The preferred method for recording sound over a specific period of time is to use the equivalent continuous noise level (L_{eq}), this represents a single decibel value which accounts for the total sound energy over a given period of time.

L_{eq} Max and L_{eq} Min were calculated using the following equation:

$$L_{eq} = 10 \log_{10} \left[\frac{1}{n} \sum 10^{\frac{SPL_i}{10}} \right] \tag{1}$$

Where n represents the number of sound samples obtained for each location and SPL_i represents the values in A-weighted decibel scale (dB(A)) of each 1-minute interval sample.

Both the L_{eq} minimum and maximum were calculated using this formula. The sound pressure level (SPL) minimum and maximum values (1-minute interval recorded values) represented the value of the minimum and maximum noise levels recorded. The dB(A) units represent the most common weighting, the A-weighting. The A-weighting, similarly to the human ear, cuts off the lower and higher frequency the average human cannot hear.

Refer to Appendix A: Calculations for a sample calculation showing how equation (1) was implemented in the data analysis process.

Table 8: Sound Monitoring Readings represents a summary of the calculated L_{eq} minimum and maximum for the three rounds of sampling.

Table 8: Sound Monitoring Readings (dB(A))

	Location 1		Location 2		Location 3		Location 4		Location 5		Location 6		Location 7		Location 8	
	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>	<i>L_{eq} Max</i>	<i>L_{eq} Min</i>
Round 1	71	36	66	36	76	30	78	21	65	35	77	36	68	38	81	37
Round 2	52	42	60	43	53	43	59	48	56	47	68	NA ^I	70	46	NA ^I	NA ^I
Round 3	53	35	77	51	68	46	62	41	71	38	66	38	21 ^{II}	18	71	52

I. Values not available due to file corruption.

II. Outlier.

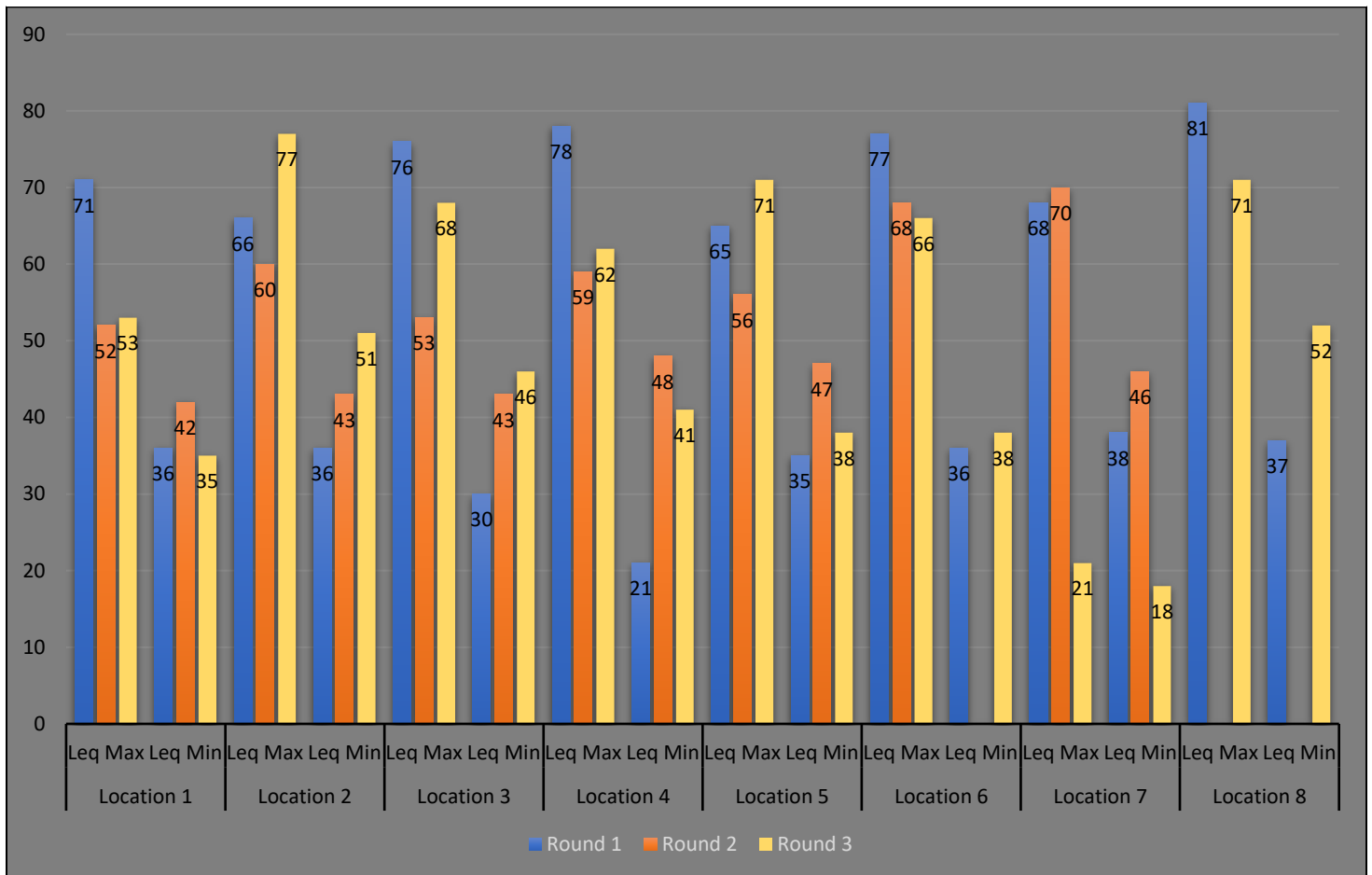
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IV. Sound Monitoring Results

Figure 7: Leq Max & Min Graphical Representation presents a graphical summary of the data that was calculated. The full datasets collected are presented in Appendix B: Raw Data.

In Round 1, all the sources of sound were recorded. These included but were not limited to, weather conditions such as rain, wind, etc.; animals in the area; trees; firearms noises from hunters; nearby waterbodies; and vehicles from State Route 55. In Rounds 2 and 3, the only added sound source was the ongoing construction of the Station. These rounds were not during hunting season so firearms noises were significantly reduced. In the last round, in Location 8, tree cutting on State Route 55 increased noise levels.

Figure 7: Leq Max & Min Graphical Representation (dBA)



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Figure 8: Sound Level Chart presents a chart summarizing typical decibel (dB) levels and respective examples for each level. Anything above 85 dB is harmful for the human ear and there are limitations on how many hours per day the human ear can be exposed to these sound sources. Throughout the baseline testing none of the L_{eq} Max were over 85 dB, the highest was for Location 8 in Round 1, and it was 81 dB.

Figure 8: Sound Level Chart (dB)

dB Level	Examples	Permitted Exposure (Hours per Day)
10	Breathing	
20	Whisper	
30	Library	
50	Quiet Office	
60	Conversational Speech, Electric shaver	
65	Piano Practice	
70	Noisy Restaurant	
75	Alarm Clock	
80	Vacuum Cleaner	
85	Garbage Disposal / Busy Hotel Lobby	
90	Tractor / Subway	8
100	Blender, Factory Noise	2
105	Motorcycle, Orchestra	1
110	Power Saw, Heavy Truck, Power Mower	0.5
115	Uncomfortable Feeling Starts	0.25
120	Disco / Loud Bar Music / Shotgun	0
130	Cymbal Crash, Air Raid Siren	0
140	Rock Concert Front Row / Jet	0
150	Chest begins to vibrate	0
160	Eardrum bursts	0
190	Loudest Possible Sound	0

3.2 Water Quality

I. Introduction

KC was tasked with collecting water samples from three different sources in the area: streams, lakes, and untreated house wells. Three locations for each source were selected for a total of nine sample sites per round and 27 samples total for all three rounds.

II. Water Sampling Approach

Each sample was analyzed for water-quality parameters, including pH, odor, color, total dissolved solids (TDS), turbidity, total hardness, calcium hardness, chloride, iron (Fe), manganese, total coliform, fecal coliform and volatile organic compounds (VOCs) based on the advisement of KC's licensed water operator. In the first round of sampling further parameters were analyzed including radioactives, synthetic organic compounds (SOCs) and inorganic compounds (IOCs).

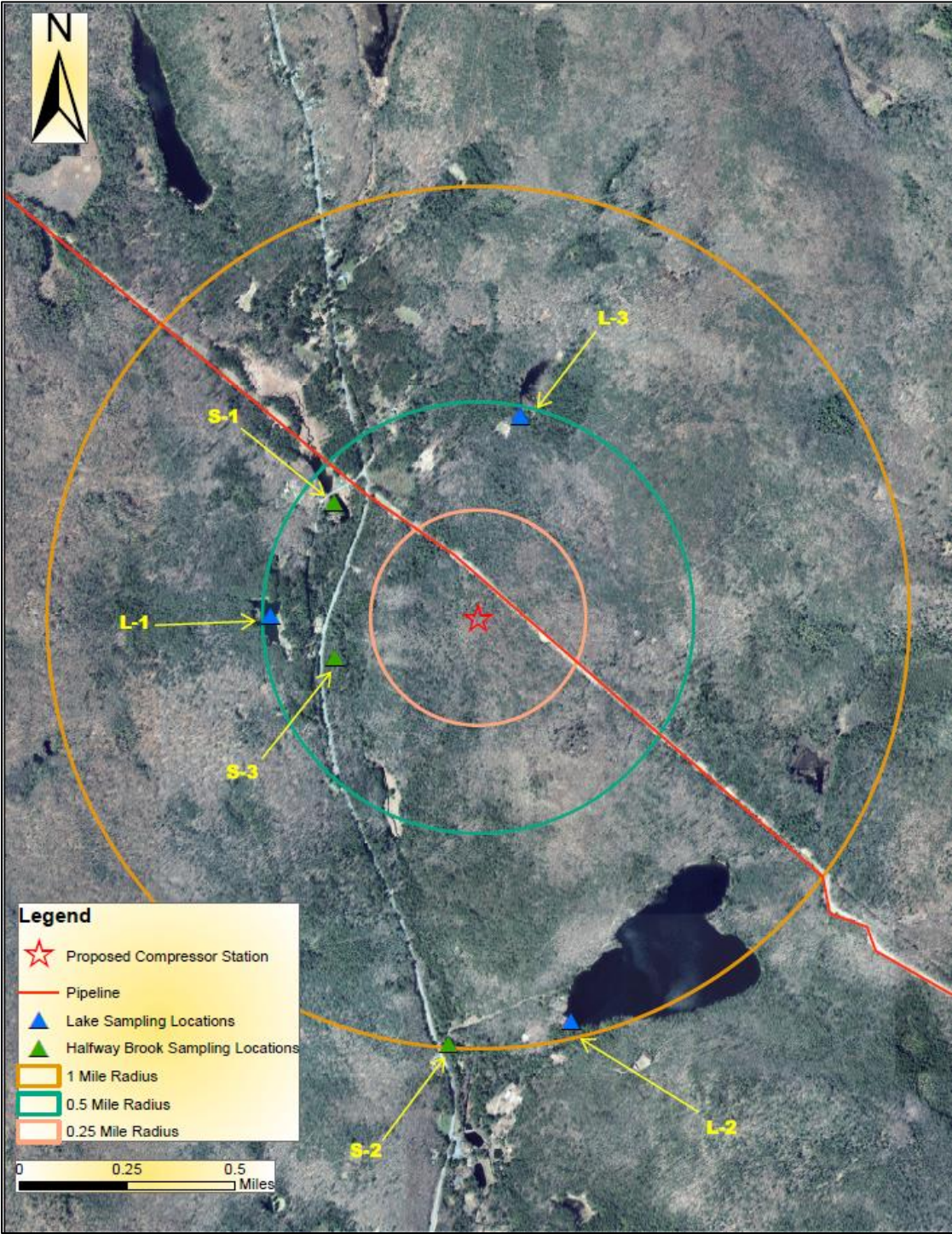
Each water sampling location was verified using pictures that included geographical coordinates. The coordinates obtained were imported into a Geographic Information System (GIS) software to develop location maps.

The largest lake sampled L-2, south of the Station is Sunrise Lake.

Figure 9: Lake and Stream Sampling Locations in Round 1 represents the map for the stream and lake sampling locations in the first round. Due to field logistics in the rounds following the first, location S-2 was switched to location S-3 and vice-versa, location S-3 was switched to S-2. This shall be kept in mind when analyzing the portable document format (PDF) reports for the samples located in Appendix C: Water Sampling Results.

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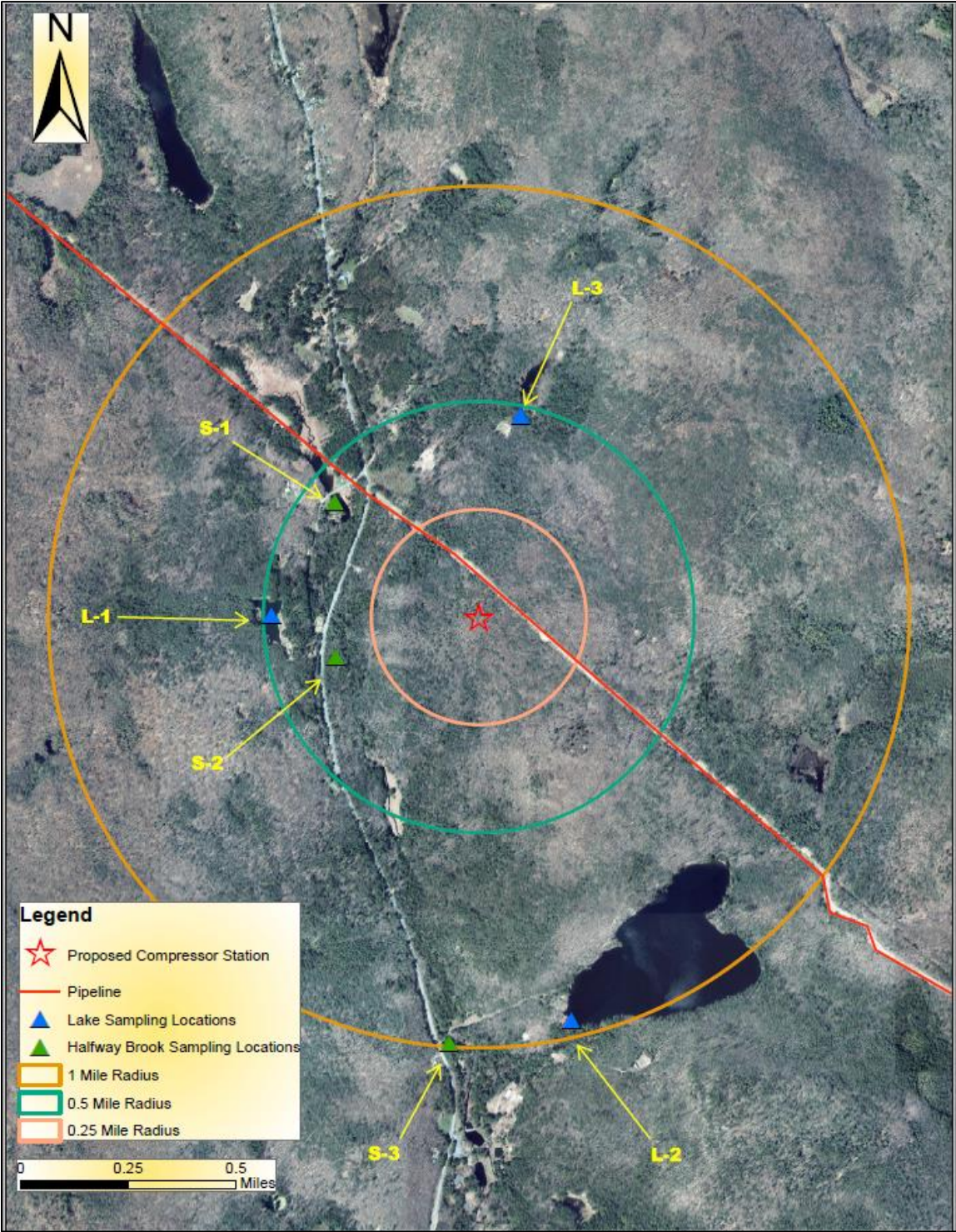
Figure 9: Lake and Stream Sampling Locations Round 1



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Figure 10: Lake and Stream Sampling Locations Round 2 presents the lake and stream samples for round two of sampling, as seen S-2 and S-3 are switched compared to round one, this was due to field work logistics.

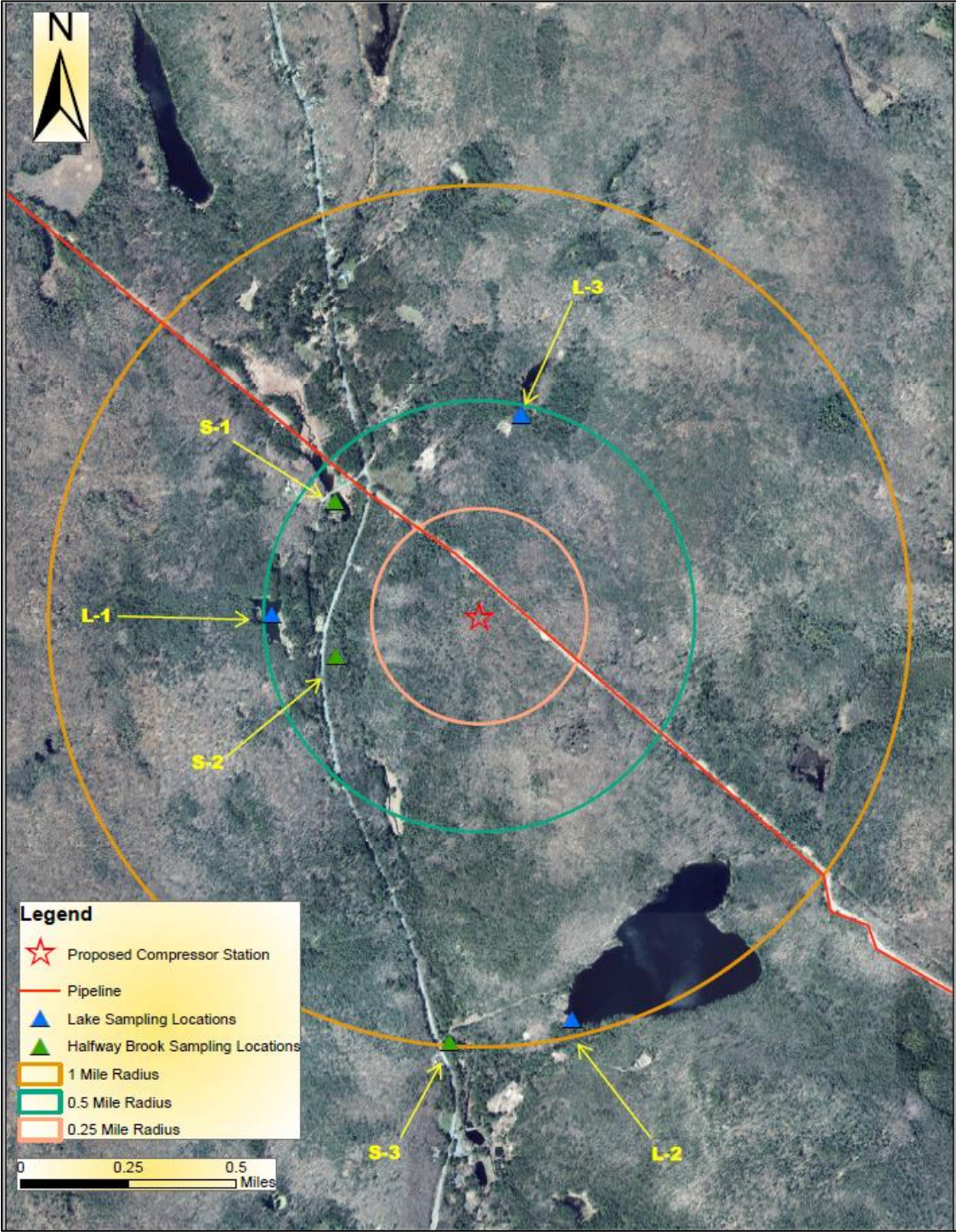
Figure 10: Lake and Stream Sampling Locations Round 2



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Figure 11: Lake and Stream Sampling Locations Round 3 is a map representing the third and last round of sampling for lakes and streams sampling.

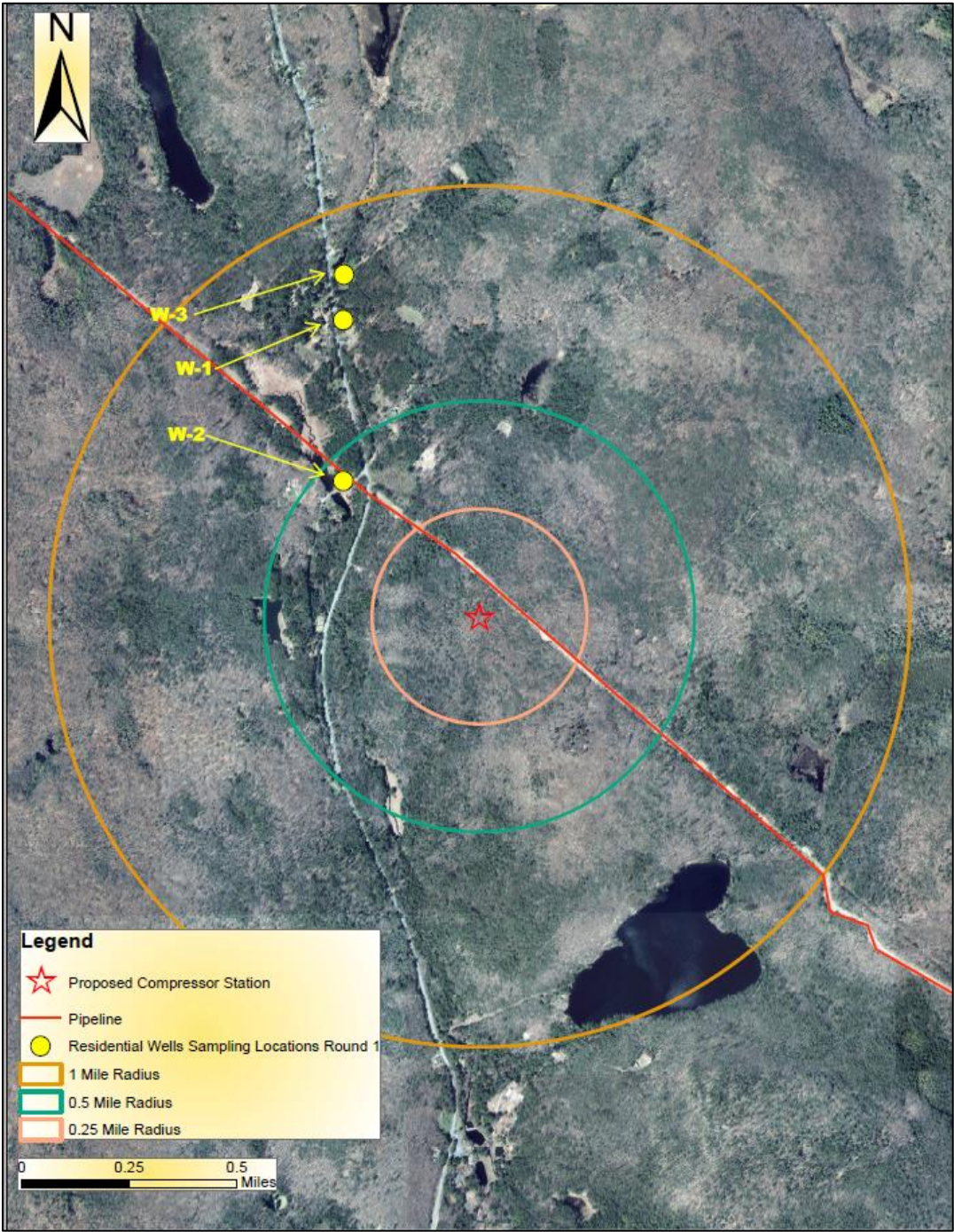
Figure 11: Lake and Stream Sampling Locations Round 3



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Well samples were identified with the "W" prefix followed by the dash symbol and a number from 1 to 3 indicating the location. The samples were handled in conformance with typical water testing standard procedures such as, proper COC protocols. Figure 12: Residential Wells Sampling Locations Round 1 is a map representing the well locations sampled in the first round.

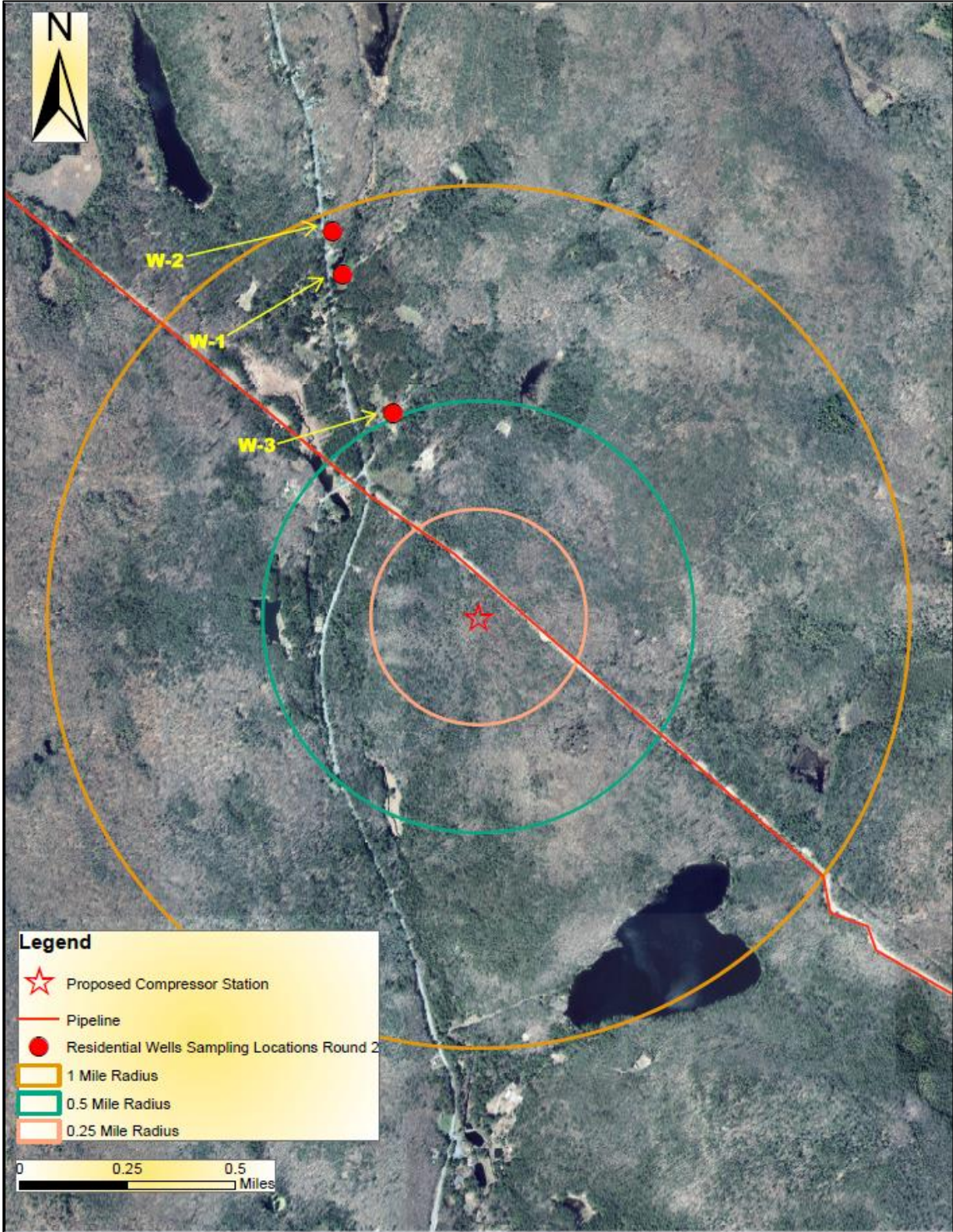
Figure 12: Residential Wells Sampling Locations Round 1



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As it can be seen in Figure 13: Residential Wells Sampling Round 2, for the second round of sampling, locations were selected based on the availability of the home owners.

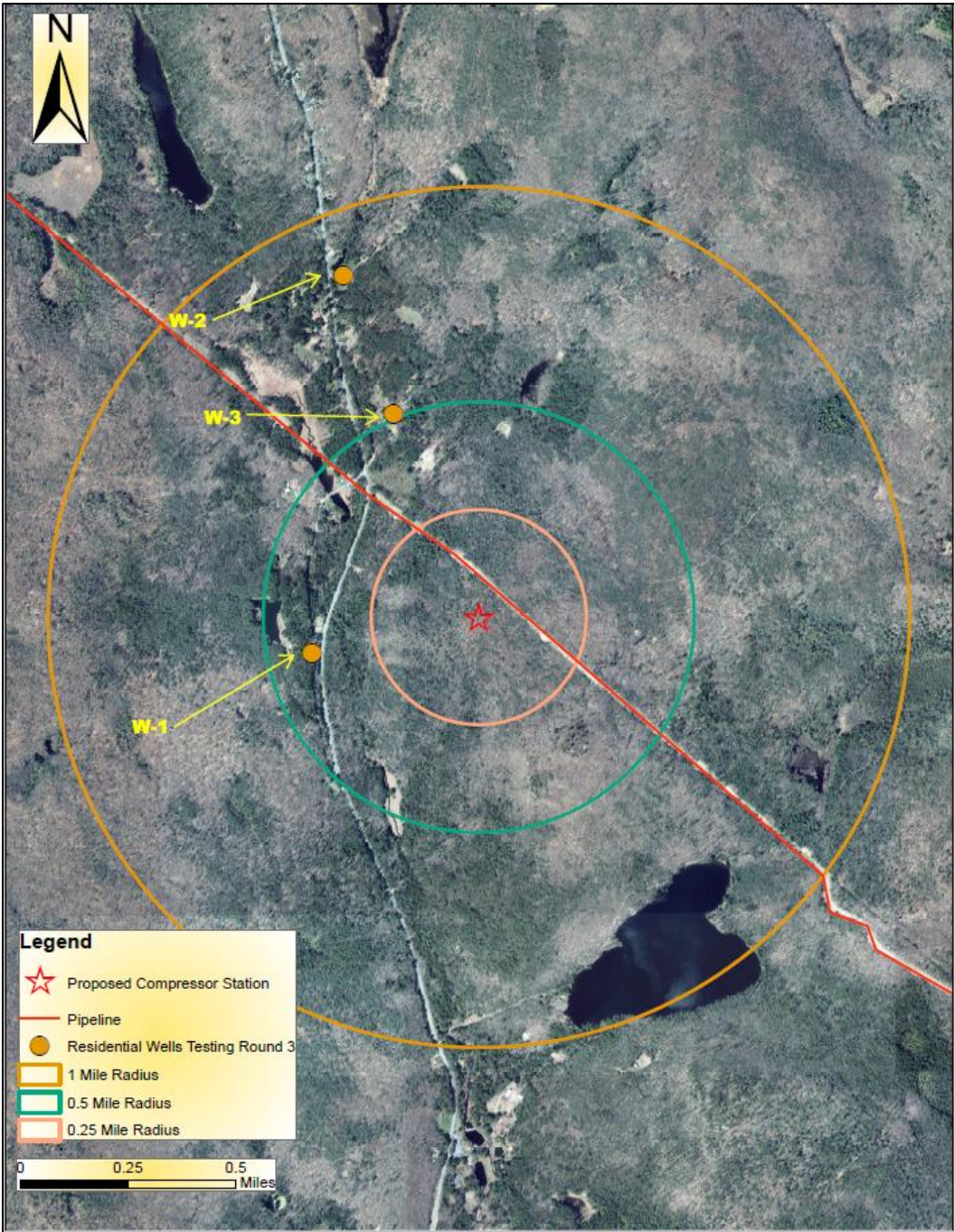
Figure 13: Residential Wells Sampling Locations Round 2



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Sampling locations were changed due to field logistics and owner's availability. See Figure 14: Residential Wells Sampling Locations Round 3 for a map of the final well sampling round.

Figure 14: Residential Wells Sampling Locations Round 3



III. Water Sampling Protocols

Surface water sampling was performed in conformance to EPA-SESDPROC-201-R3, Surface Water Sampling, 2013. Groundwater sampling was performed in conformance to EPA-SESDPROC-301-R3, Groundwater Sampling, 2013.

IV. Water Sampling Results

The EPA establishes water quality standards for drinking water. These standards establish Maximum Contaminant Levels (MCLs) to protect the public. Additionally, EPA has established National Secondary Drinking Water Regulations (NSDWRs) that set non-mandatory quality standards for 15 contaminants. Among these Secondary Maximum Contaminant Levels (SMCLs) is Fe, at a secondary MCL of 0.30 mg/L. In some of the groundwater wells sampled, the levels of Fe were above this secondary MCL. This is expected in this geographic area of the state.

4.0 Conclusion

A baseline testing for the Town of Highland south of the White Lake Region was conducted by KC between 2017 and 2018, prior to Millennium's Station start-up. Three rounds of testing were conducted at a total of 17 different location, including, eight for air quality and sound levels, and nine for water quality.

Air quality monitoring included one-time recording devices as well as the data-logged data at extended time intervals. Sound levels were data-logged continuously. Water quality samples were taken at three lakes, three streams, and three wells.

Air quality samples results were as expected for the area. Sound monitoring produced data all below the 85 dB threshold. Water results returned no data that was unexpected.

The purpose of this study was to establish a baseline before and throughout construction of the Station, which may be used to compare it to any potential future study performed once the Station will be in use.

5.0 References

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- EPA-454/R-99-005, Meteorological Monitoring Guidance for Regulatory Modeling Applications, USA Environmental Protection Agency (EPA), Research Triangle Park, NC, 2000.
- EPA-SESDPROC-201-R3, Surface Water Sampling, USA Environmental Protection Agency (EPA), Athens, GA, 2013
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- EPA-SESDPROC-303-R5, Ambient Air Sampling, USA Environmental Protection Agency (EPA), Athens, GA, 2016
- "Frequency Weightings - A-Weighted, C-Weighted or Z-Weighted?" Sound Level Meters, Noise Dosimeters, Noise Monitors and Noise Measurement Accessories, www.noisemeters.com/help/faq/frequency-weighting.asp.
- "Historical Weather." Weather Underground (10.226.237.35), www.wunderground.com/history/.
- "Noise Level Chart (DB Level Chart) -." Boom Speaker, 23 June 2018, boomspeaker.com/noise-level-chart-db-level-chart/.

Appendices A-E

Appendix A: Calculations

Sample of Sound Calculations done in Excel

Given an SPLi = 67.60 dB

$$10^{\frac{SPLi}{10}} = 10^{\frac{67.60}{10}} = 5.75 \times 10^6 \quad (1)$$

Sum all SPLi together and use Excel's CountA function to apply the following formula

$$L_{eq} = 10 \log_{10} \left[\frac{1}{n} \sum 10^{\frac{SPLi}{10}} \right] \quad (2)$$

CountA for this example = 1184

$$L_{eqMax} = 10 \log_{10} \left[\frac{1}{1184} \sum 10^{\frac{SPLi}{10}} \right] = 52.03 \text{ dB} \quad (3)$$

The same procedure was applied for L_{eqMin}

Appendix B: Raw Data

Round 1

Location 1				Total Average (mg/m ³) = 0.007	
Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/30/2017 10:30	0.004	10/30/2017 11:13	0.004	10/30/2017 11:56	0.004
10/30/2017 10:31	0.004	10/30/2017 11:14	0.004	10/30/2017 11:57	0.004
10/30/2017 10:32	0.004	10/30/2017 11:15	0.004	10/30/2017 11:58	0.043
10/30/2017 10:33	0.004	10/30/2017 11:16	0.004	10/30/2017 11:59	0.005
10/30/2017 10:34	0.004	10/30/2017 11:17	0.004	10/30/2017 12:00	0.009
10/30/2017 10:35	0.004	10/30/2017 11:18	0.004	10/30/2017 12:01	0.007
10/30/2017 10:36	0.004	10/30/2017 11:19	0.004	10/30/2017 12:02	0.006
10/30/2017 10:37	0.004	10/30/2017 11:20	0.004	10/30/2017 12:03	0.006
10/30/2017 10:38	0.004	10/30/2017 11:21	0.004	10/30/2017 12:04	0.01
10/30/2017 10:39	0.004	10/30/2017 11:22	0.004	10/30/2017 12:05	0.005
10/30/2017 10:40	0.004	10/30/2017 11:23	0.004	10/30/2017 12:06	0.004
10/30/2017 10:41	0.004	10/30/2017 11:24	0.004	10/30/2017 12:07	0.004
10/30/2017 10:42	0.004	10/30/2017 11:25	0.004	10/30/2017 12:08	0.004
10/30/2017 10:43	0.004	10/30/2017 11:26	0.004	10/30/2017 12:09	0.004
10/30/2017 10:44	0.004	10/30/2017 11:27	0.004	10/30/2017 12:10	0.004
10/30/2017 10:45	0.004	10/30/2017 11:28	0.004	10/30/2017 12:11	0.006
10/30/2017 10:46	0.004	10/30/2017 11:29	0.004	10/30/2017 12:12	0.004
10/30/2017 10:47	0.004	10/30/2017 11:30	0.004	10/30/2017 12:13	0.004
10/30/2017 10:48	0.004	10/30/2017 11:31	0.004	10/30/2017 12:14	0.004
10/30/2017 10:49	0.004	10/30/2017 11:32	0.004	10/30/2017 12:15	0.003
10/30/2017 10:50	0.004	10/30/2017 11:33	0.004	10/30/2017 12:16	0.003
10/30/2017 10:51	0.004	10/30/2017 11:34	0.004	10/30/2017 12:17	0.003
10/30/2017 10:52	0.004	10/30/2017 11:35	0.004	10/30/2017 12:18	0.003
10/30/2017 10:53	0.004	10/30/2017 11:36	0.004	10/30/2017 12:19	0.002
10/30/2017 10:54	0.004	10/30/2017 11:37	0.004	10/30/2017 12:20	0.003
10/30/2017 10:55	0.003	10/30/2017 11:38	0.004	10/30/2017 12:21	0.003
10/30/2017 10:56	0.004	10/30/2017 11:39	0.004	10/30/2017 12:22	0.003
10/30/2017 10:57	0.004	10/30/2017 11:40	0.004	10/30/2017 12:23	0.003
10/30/2017 10:58	0.003	10/30/2017 11:41	0.004	10/30/2017 12:24	0.003
10/30/2017 10:59	0.003	10/30/2017 11:42	0.004	10/30/2017 12:25	0.003
10/30/2017 11:00	0.003	10/30/2017 11:43	0.004	10/30/2017 12:26	0.003
10/30/2017 11:01	0.004	10/30/2017 11:44	0.005	10/30/2017 12:27	0.003
10/30/2017 11:02	0.003	10/30/2017 11:45	0.004	10/30/2017 12:28	0.003
10/30/2017 11:03	0.004	10/30/2017 11:46	0.004	10/30/2017 12:29	0.005
10/30/2017 11:04	0.003	10/30/2017 11:47	0.004	10/30/2017 12:30	0.005
10/30/2017 11:05	0.004	10/30/2017 11:48	0.004	10/30/2017 12:31	0.003
10/30/2017 11:06	0.003	10/30/2017 11:49	0.004	10/30/2017 12:32	0.003
10/30/2017 11:07	0.004	10/30/2017 11:50	0.004	10/30/2017 12:33	0.004
10/30/2017 11:08	0.004	10/30/2017 11:51	0.004	10/30/2017 12:34	0.004
10/30/2017 11:09	0.004	10/30/2017 11:52	0.004	10/30/2017 12:35	0.004
10/30/2017 11:10	0.004	10/30/2017 11:53	0.004	10/30/2017 12:36	0.003
10/30/2017 11:11	0.004	10/30/2017 11:54	0.004	10/30/2017 12:37	0.005
10/30/2017 11:12	0.004	10/30/2017 11:55	0.004	10/30/2017 12:38	0.004

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/30/2017 12:39	0.003	10/30/2017 13:25	0.004	10/30/2017 14:11	0.074
10/30/2017 12:40	0.003	10/30/2017 13:26	0.004	10/30/2017 14:12	0.005
10/30/2017 12:41	0.002	10/30/2017 13:27	0.004	10/30/2017 14:13	0.005
10/30/2017 12:42	0.002	10/30/2017 13:28	0.004	10/30/2017 14:14	0.005
10/30/2017 12:43	0.002	10/30/2017 13:29	0.004	10/30/2017 14:15	0.005
10/30/2017 12:44	0.002	10/30/2017 13:30	0.004	10/30/2017 14:16	0.005
10/30/2017 12:45	0.002	10/30/2017 13:31	0.004	10/30/2017 14:17	0.005
10/30/2017 12:46	0.002	10/30/2017 13:32	0.004	10/30/2017 14:18	0.005
10/30/2017 12:47	0.005	10/30/2017 13:33	0.004	10/30/2017 14:19	0.005
10/30/2017 12:48	0.003	10/30/2017 13:34	0.004	10/30/2017 14:20	0.005
10/30/2017 12:49	0.004	10/30/2017 13:35	0.004	10/30/2017 14:21	0.005
10/30/2017 12:50	0.003	10/30/2017 13:36	0.004	10/30/2017 14:22	0.005
10/30/2017 12:51	0.004	10/30/2017 13:37	0.004	10/30/2017 14:23	0.005
10/30/2017 12:52	0.034	10/30/2017 13:38	0.004	10/30/2017 14:24	0.005
10/30/2017 12:53	0.017	10/30/2017 13:39	0.004	10/30/2017 14:25	0.005
10/30/2017 12:54	0.018	10/30/2017 13:40	0.004	10/30/2017 14:26	0.005
10/30/2017 12:55	0.002	10/30/2017 13:41	0.004	10/30/2017 14:27	0.005
10/30/2017 12:56	0.137	10/30/2017 13:42	0.004	10/30/2017 14:28	0.005
10/30/2017 12:57	0.014	10/30/2017 13:43	0.004	10/30/2017 14:29	0.005
10/30/2017 12:58	0.003	10/30/2017 13:44	0.004	10/30/2017 14:30	0.005
10/30/2017 12:59	0.003	10/30/2017 13:45	0.004	10/30/2017 14:31	0.005
10/30/2017 13:00	0.003	10/30/2017 13:46	0.004	10/30/2017 14:32	0.005
10/30/2017 13:01	0.003	10/30/2017 13:47	0.004	10/30/2017 14:33	0.005
10/30/2017 13:02	0.003	10/30/2017 13:48	0.005	10/30/2017 14:34	0.005
10/30/2017 13:03	0.003	10/30/2017 13:49	0.005	10/30/2017 14:35	0.005
10/30/2017 13:04	0.003	10/30/2017 13:50	0.005	10/30/2017 14:36	0.005
10/30/2017 13:05	0.003	10/30/2017 13:51	0.005	10/30/2017 14:37	0.005
10/30/2017 13:06	0.003	10/30/2017 13:52	0.005	10/30/2017 14:38	0.005
10/30/2017 13:07	0.008	10/30/2017 13:53	0.004	10/30/2017 14:39	0.005
10/30/2017 13:08	0.003	10/30/2017 13:54	0.005	10/30/2017 14:40	0.005
10/30/2017 13:09	0.003	10/30/2017 13:55	0.005	10/30/2017 14:41	0.005
10/30/2017 13:10	0.003	10/30/2017 13:56	0.005	10/30/2017 14:42	0.005
10/30/2017 13:11	0.006	10/30/2017 13:57	0.005	10/30/2017 14:43	0.005
10/30/2017 13:12	0.004	10/30/2017 13:58	0.005	10/30/2017 14:44	0.005
10/30/2017 13:13	0.003	10/30/2017 13:59	0.005	10/30/2017 14:45	0.005
10/30/2017 13:14	0.003	10/30/2017 14:00	0.005	10/30/2017 14:46	0.005
10/30/2017 13:15	0.004	10/30/2017 14:01	0.005	10/30/2017 14:47	0.005
10/30/2017 13:16	0.004	10/30/2017 14:02	0.005	10/30/2017 14:48	0.005
10/30/2017 13:17	0.004	10/30/2017 14:03	0.005	10/30/2017 14:49	0.005
10/30/2017 13:18	0.004	10/30/2017 14:04	0.005	10/30/2017 14:50	0.005
10/30/2017 13:19	0.004	10/30/2017 14:05	0.005	10/30/2017 14:51	0.005
10/30/2017 13:20	0.004	10/30/2017 14:06	0.005	10/30/2017 14:52	0.005
10/30/2017 13:21	0.004	10/30/2017 14:07	0.005	10/30/2017 14:53	0.005
10/30/2017 13:22	0.004	10/30/2017 14:08	0.005	10/30/2017 14:54	0.005
10/30/2017 13:23	0.004	10/30/2017 14:09	0.005	10/30/2017 14:55	0.005
10/30/2017 13:24	0.004	10/30/2017 14:10	0.005	10/30/2017 14:56	0.005

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/30/2017 14:57	0.005	10/30/2017 15:43	0.005	10/30/2017 16:29	0.005
10/30/2017 14:58	0.005	10/30/2017 15:44	0.005	10/30/2017 16:30	0.005
10/30/2017 14:59	0.005	10/30/2017 15:45	0.005	10/30/2017 16:31	0.006
10/30/2017 15:00	0.005	10/30/2017 15:46	0.005	10/30/2017 16:32	0.006
10/30/2017 15:01	0.005	10/30/2017 15:47	0.005	10/30/2017 16:33	0.006
10/30/2017 15:02	0.005	10/30/2017 15:48	0.005	10/30/2017 16:34	0.006
10/30/2017 15:03	0.005	10/30/2017 15:49	0.005	10/30/2017 16:35	0.006
10/30/2017 15:04	0.005	10/30/2017 15:50	0.005	10/30/2017 16:36	0.006
10/30/2017 15:05	0.005	10/30/2017 15:51	0.005	10/30/2017 16:37	0.006
10/30/2017 15:06	0.005	10/30/2017 15:52	0.005	10/30/2017 16:38	0.006
10/30/2017 15:07	0.005	10/30/2017 15:53	0.005	10/30/2017 16:39	0.006
10/30/2017 15:08	0.005	10/30/2017 15:54	0.005	10/30/2017 16:40	0.006
10/30/2017 15:09	0.005	10/30/2017 15:55	0.005	10/30/2017 16:41	0.006
10/30/2017 15:10	0.005	10/30/2017 15:56	0.005	10/30/2017 16:42	0.006
10/30/2017 15:11	0.005	10/30/2017 15:57	0.005	10/30/2017 16:43	0.006
10/30/2017 15:12	0.005	10/30/2017 15:58	0.005	10/30/2017 16:44	0.006
10/30/2017 15:13	0.005	10/30/2017 15:59	0.005	10/30/2017 16:45	0.006
10/30/2017 15:14	0.005	10/30/2017 16:00	0.005	10/30/2017 16:46	0.006
10/30/2017 15:15	0.005	10/30/2017 16:01	0.005	10/30/2017 16:47	0.006
10/30/2017 15:16	0.005	10/30/2017 16:02	0.005	10/30/2017 16:48	0.006
10/30/2017 15:17	0.005	10/30/2017 16:03	0.005	10/30/2017 16:49	0.006
10/30/2017 15:18	0.005	10/30/2017 16:04	0.005	10/30/2017 16:50	0.006
10/30/2017 15:19	0.005	10/30/2017 16:05	0.005	10/30/2017 16:51	0.006
10/30/2017 15:20	0.005	10/30/2017 16:06	0.006	10/30/2017 16:52	0.006
10/30/2017 15:21	0.005	10/30/2017 16:07	0.005	10/30/2017 16:53	0.006
10/30/2017 15:22	0.006	10/30/2017 16:08	0.005	10/30/2017 16:54	0.006
10/30/2017 15:23	0.005	10/30/2017 16:09	0.006	10/30/2017 16:55	0.006
10/30/2017 15:24	0.005	10/30/2017 16:10	0.005	10/30/2017 16:56	0.01
10/30/2017 15:25	0.005	10/30/2017 16:11	0.005	10/30/2017 16:57	0.009
10/30/2017 15:26	0.005	10/30/2017 16:12	0.006	10/30/2017 16:58	0.006
10/30/2017 15:27	0.005	10/30/2017 16:13	0.005	10/30/2017 16:59	0.006
10/30/2017 15:28	0.005	10/30/2017 16:14	0.005	10/30/2017 17:00	0.006
10/30/2017 15:29	0.005	10/30/2017 16:15	0.005	10/30/2017 17:01	0.006
10/30/2017 15:30	0.005	10/30/2017 16:16	0.005	10/30/2017 17:02	0.006
10/30/2017 15:31	0.005	10/30/2017 16:17	0.005	10/30/2017 17:03	0.006
10/30/2017 15:32	0.005	10/30/2017 16:18	0.005	10/30/2017 17:04	0.006
10/30/2017 15:33	0.005	10/30/2017 16:19	0.005	10/30/2017 17:05	0.006
10/30/2017 15:34	0.005	10/30/2017 16:20	0.005	10/30/2017 17:06	0.006
10/30/2017 15:35	0.005	10/30/2017 16:21	0.005	10/30/2017 17:07	0.006
10/30/2017 15:36	0.005	10/30/2017 16:22	0.006	10/30/2017 17:08	0.006
10/30/2017 15:37	0.005	10/30/2017 16:23	0.005	10/30/2017 17:09	0.006
10/30/2017 15:38	0.005	10/30/2017 16:24	0.005	10/30/2017 17:10	0.006
10/30/2017 15:39	0.005	10/30/2017 16:25	0.005	10/30/2017 17:11	0.006
10/30/2017 15:40	0.005	10/30/2017 16:26	0.005	10/30/2017 17:12	0.007
10/30/2017 15:41	0.005	10/30/2017 16:27	0.006	10/30/2017 17:13	0.006
10/30/2017 15:42	0.005	10/30/2017 16:28	0.006	10/30/2017 17:14	0.007

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/30/2017 17:15	0.007	10/30/2017 18:01	0.007	10/30/2017 18:47	0.007
10/30/2017 17:16	0.007	10/30/2017 18:02	0.007	10/30/2017 18:48	0.007
10/30/2017 17:17	0.007	10/30/2017 18:03	0.007	10/30/2017 18:49	0.007
10/30/2017 17:18	0.006	10/30/2017 18:04	0.007	10/30/2017 18:50	0.007
10/30/2017 17:19	0.006	10/30/2017 18:05	0.007	10/30/2017 18:51	0.007
10/30/2017 17:20	0.006	10/30/2017 18:06	0.007	10/30/2017 18:52	0.007
10/30/2017 17:21	0.006	10/30/2017 18:07	0.007	10/30/2017 18:53	0.007
10/30/2017 17:22	0.006	10/30/2017 18:08	0.007	10/30/2017 18:54	0.007
10/30/2017 17:23	0.006	10/30/2017 18:09	0.007	10/30/2017 18:55	0.007
10/30/2017 17:24	0.007	10/30/2017 18:10	0.007	10/30/2017 18:56	0.007
10/30/2017 17:25	0.007	10/30/2017 18:11	0.007	10/30/2017 18:57	0.007
10/30/2017 17:26	0.006	10/30/2017 18:12	0.007	10/30/2017 18:58	0.007
10/30/2017 17:27	0.007	10/30/2017 18:13	0.007	10/30/2017 18:59	0.007
10/30/2017 17:28	0.006	10/30/2017 18:14	0.007	10/30/2017 19:00	0.007
10/30/2017 17:29	0.007	10/30/2017 18:15	0.007	10/30/2017 19:01	0.007
10/30/2017 17:30	0.006	10/30/2017 18:16	0.007	10/30/2017 19:02	0.007
10/30/2017 17:31	0.007	10/30/2017 18:17	0.007	10/30/2017 19:03	0.007
10/30/2017 17:32	0.006	10/30/2017 18:18	0.007	10/30/2017 19:04	0.007
10/30/2017 17:33	0.007	10/30/2017 18:19	0.007	10/30/2017 19:05	0.007
10/30/2017 17:34	0.006	10/30/2017 18:20	0.006	10/30/2017 19:06	0.007
10/30/2017 17:35	0.007	10/30/2017 18:21	0.008	10/30/2017 19:07	0.007
10/30/2017 17:36	0.007	10/30/2017 18:22	0.007	10/30/2017 19:08	0.007
10/30/2017 17:37	0.007	10/30/2017 18:23	0.007	10/30/2017 19:09	0.007
10/30/2017 17:38	0.007	10/30/2017 18:24	0.007	10/30/2017 19:10	0.007
10/30/2017 17:39	0.007	10/30/2017 18:25	0.007	10/30/2017 19:11	0.007
10/30/2017 17:40	0.007	10/30/2017 18:26	0.007	10/30/2017 19:12	0.007
10/30/2017 17:41	0.007	10/30/2017 18:27	0.007	10/30/2017 19:13	0.007
10/30/2017 17:42	0.007	10/30/2017 18:28	0.007	10/30/2017 19:14	0.007
10/30/2017 17:43	0.007	10/30/2017 18:29	0.007	10/30/2017 19:15	0.007
10/30/2017 17:44	0.007	10/30/2017 18:30	0.007	10/30/2017 19:16	0.008
10/30/2017 17:45	0.007	10/30/2017 18:31	0.007	10/30/2017 19:17	0.007
10/30/2017 17:46	0.006	10/30/2017 18:32	0.007	10/30/2017 19:18	0.007
10/30/2017 17:47	0.007	10/30/2017 18:33	0.007	10/30/2017 19:19	0.007
10/30/2017 17:48	0.007	10/30/2017 18:34	0.007	10/30/2017 19:20	0.007
10/30/2017 17:49	0.007	10/30/2017 18:35	0.007	10/30/2017 19:21	0.007
10/30/2017 17:50	0.007	10/30/2017 18:36	0.007	10/30/2017 19:22	0.008
10/30/2017 17:51	0.007	10/30/2017 18:37	0.007	10/30/2017 19:23	0.008
10/30/2017 17:52	0.007	10/30/2017 18:38	0.007	10/30/2017 19:24	0.008
10/30/2017 17:53	0.007	10/30/2017 18:39	0.007	10/30/2017 19:25	0.008
10/30/2017 17:54	0.007	10/30/2017 18:40	0.007	10/30/2017 19:26	0.008
10/30/2017 17:55	0.006	10/30/2017 18:41	0.007	10/30/2017 19:27	0.007
10/30/2017 17:56	0.006	10/30/2017 18:42	0.007	10/30/2017 19:28	0.007
10/30/2017 17:57	0.007	10/30/2017 18:43	0.007	10/30/2017 19:29	0.008
10/30/2017 17:58	0.007	10/30/2017 18:44	0.007	10/30/2017 19:30	0.008
10/30/2017 17:59	0.007	10/30/2017 18:45	0.007	10/30/2017 19:31	0.008
10/30/2017 18:00	0.007	10/30/2017 18:46	0.007	10/30/2017 19:32	0.008

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/30/2017 19:33	0.007	10/30/2017 20:19	0.009	10/30/2017 21:05	0.009
10/30/2017 19:34	0.007	10/30/2017 20:20	0.008	10/30/2017 21:06	0.009
10/30/2017 19:35	0.007	10/30/2017 20:21	0.009	10/30/2017 21:07	0.009
10/30/2017 19:36	0.007	10/30/2017 20:22	0.008	10/30/2017 21:08	0.009
10/30/2017 19:37	0.007	10/30/2017 20:23	0.009	10/30/2017 21:09	0.009
10/30/2017 19:38	0.007	10/30/2017 20:24	0.009	10/30/2017 21:10	0.009
10/30/2017 19:39	0.007	10/30/2017 20:25	0.009	10/30/2017 21:11	0.008
10/30/2017 19:40	0.007	10/30/2017 20:26	0.009	10/30/2017 21:12	0.009
10/30/2017 19:41	0.008	10/30/2017 20:27	0.008	10/30/2017 21:13	0.009
10/30/2017 19:42	0.008	10/30/2017 20:28	0.009	10/30/2017 21:14	0.008
10/30/2017 19:43	0.008	10/30/2017 20:29	0.009	10/30/2017 21:15	0.008
10/30/2017 19:44	0.008	10/30/2017 20:30	0.008	10/30/2017 21:16	0.008
10/30/2017 19:45	0.008	10/30/2017 20:31	0.009	10/30/2017 21:17	0.008
10/30/2017 19:46	0.008	10/30/2017 20:32	0.009	10/30/2017 21:18	0.008
10/30/2017 19:47	0.008	10/30/2017 20:33	0.009	10/30/2017 21:19	0.008
10/30/2017 19:48	0.008	10/30/2017 20:34	0.008	10/30/2017 21:20	0.009
10/30/2017 19:49	0.008	10/30/2017 20:35	0.009	10/30/2017 21:21	0.009
10/30/2017 19:50	0.008	10/30/2017 20:36	0.009	10/30/2017 21:22	0.008
10/30/2017 19:51	0.008	10/30/2017 20:37	0.009	10/30/2017 21:23	0.008
10/30/2017 19:52	0.008	10/30/2017 20:38	0.009	10/30/2017 21:24	0.008
10/30/2017 19:53	0.008	10/30/2017 20:39	0.009	10/30/2017 21:25	0.008
10/30/2017 19:54	0.009	10/30/2017 20:40	0.009	10/30/2017 21:26	0.008
10/30/2017 19:55	0.008	10/30/2017 20:41	0.009	10/30/2017 21:27	0.008
10/30/2017 19:56	0.008	10/30/2017 20:42	0.009	10/30/2017 21:28	0.009
10/30/2017 19:57	0.008	10/30/2017 20:43	0.009	10/30/2017 21:29	0.008
10/30/2017 19:58	0.008	10/30/2017 20:44	0.009	10/30/2017 21:30	0.009
10/30/2017 19:59	0.008	10/30/2017 20:45	0.009	10/30/2017 21:31	0.008
10/30/2017 20:00	0.008	10/30/2017 20:46	0.009	10/30/2017 21:32	0.009
10/30/2017 20:01	0.008	10/30/2017 20:47	0.009	10/30/2017 21:33	0.009
10/30/2017 20:02	0.008	10/30/2017 20:48	0.008	10/30/2017 21:34	0.009
10/30/2017 20:03	0.008	10/30/2017 20:49	0.008	10/30/2017 21:35	0.009
10/30/2017 20:04	0.008	10/30/2017 20:50	0.009	10/30/2017 21:36	0.008
10/30/2017 20:05	0.009	10/30/2017 20:51	0.008	10/30/2017 21:37	0.008
10/30/2017 20:06	0.008	10/30/2017 20:52	0.008	10/30/2017 21:38	0.008
10/30/2017 20:07	0.008	10/30/2017 20:53	0.008	10/30/2017 21:39	0.008
10/30/2017 20:08	0.008	10/30/2017 20:54	0.009	10/30/2017 21:40	0.009
10/30/2017 20:09	0.009	10/30/2017 20:55	0.009	10/30/2017 21:41	0.008
10/30/2017 20:10	0.009	10/30/2017 20:56	0.009	10/30/2017 21:42	0.008
10/30/2017 20:11	0.008	10/30/2017 20:57	0.009	10/30/2017 21:43	0.008
10/30/2017 20:12	0.009	10/30/2017 20:58	0.008	10/30/2017 21:44	0.008
10/30/2017 20:13	0.009	10/30/2017 20:59	0.008	10/30/2017 21:45	0.008
10/30/2017 20:14	0.009	10/30/2017 21:00	0.009	10/30/2017 21:46	0.008
10/30/2017 20:15	0.008	10/30/2017 21:01	0.008	10/30/2017 21:47	0.008
10/30/2017 20:16	0.009	10/30/2017 21:02	0.009	10/30/2017 21:48	0.008
10/30/2017 20:17	0.009	10/30/2017 21:03	0.008	10/30/2017 21:49	0.008
10/30/2017 20:18	0.009	10/30/2017 21:04	0.009	10/30/2017 21:50	0.009

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/30/2017 21:51	0.009	10/30/2017 22:37	0.008	10/30/2017 23:23	0.008
10/30/2017 21:52	0.008	10/30/2017 22:38	0.008	10/30/2017 23:24	0.008
10/30/2017 21:53	0.008	10/30/2017 22:39	0.008	10/30/2017 23:25	0.008
10/30/2017 21:54	0.009	10/30/2017 22:40	0.008	10/30/2017 23:26	0.008
10/30/2017 21:55	0.009	10/30/2017 22:41	0.008	10/30/2017 23:27	0.008
10/30/2017 21:56	0.008	10/30/2017 22:42	0.008	10/30/2017 23:28	0.008
10/30/2017 21:57	0.008	10/30/2017 22:43	0.008	10/30/2017 23:29	0.008
10/30/2017 21:58	0.008	10/30/2017 22:44	0.008	10/30/2017 23:30	0.008
10/30/2017 21:59	0.008	10/30/2017 22:45	0.008	10/30/2017 23:31	0.008
10/30/2017 22:00	0.008	10/30/2017 22:46	0.008	10/30/2017 23:32	0.008
10/30/2017 22:01	0.008	10/30/2017 22:47	0.008	10/30/2017 23:33	0.008
10/30/2017 22:02	0.009	10/30/2017 22:48	0.008	10/30/2017 23:34	0.009
10/30/2017 22:03	0.009	10/30/2017 22:49	0.008	10/30/2017 23:35	0.008
10/30/2017 22:04	0.009	10/30/2017 22:50	0.008	10/30/2017 23:36	0.008
10/30/2017 22:05	0.008	10/30/2017 22:51	0.008	10/30/2017 23:37	0.008
10/30/2017 22:06	0.008	10/30/2017 22:52	0.009	10/30/2017 23:38	0.008
10/30/2017 22:07	0.008	10/30/2017 22:53	0.008	10/30/2017 23:39	0.008
10/30/2017 22:08	0.008	10/30/2017 22:54	0.008	10/30/2017 23:40	0.008
10/30/2017 22:09	0.008	10/30/2017 22:55	0.008	10/30/2017 23:41	0.008
10/30/2017 22:10	0.008	10/30/2017 22:56	0.008	10/30/2017 23:42	0.009
10/30/2017 22:11	0.008	10/30/2017 22:57	0.008	10/30/2017 23:43	0.009
10/30/2017 22:12	0.008	10/30/2017 22:58	0.008	10/30/2017 23:44	0.009
10/30/2017 22:13	0.008	10/30/2017 22:59	0.008	10/30/2017 23:45	0.008
10/30/2017 22:14	0.008	10/30/2017 23:00	0.008	10/30/2017 23:46	0.009
10/30/2017 22:15	0.009	10/30/2017 23:01	0.008	10/30/2017 23:47	0.009
10/30/2017 22:16	0.008	10/30/2017 23:02	0.008	10/30/2017 23:48	0.009
10/30/2017 22:17	0.008	10/30/2017 23:03	0.008	10/30/2017 23:49	0.009
10/30/2017 22:18	0.009	10/30/2017 23:04	0.008	10/30/2017 23:50	0.01
10/30/2017 22:19	0.008	10/30/2017 23:05	0.008	10/30/2017 23:51	0.01
10/30/2017 22:20	0.008	10/30/2017 23:06	0.008	10/30/2017 23:52	0.009
10/30/2017 22:21	0.008	10/30/2017 23:07	0.008	10/30/2017 23:53	0.01
10/30/2017 22:22	0.008	10/30/2017 23:08	0.008	10/30/2017 23:54	0.009
10/30/2017 22:23	0.008	10/30/2017 23:09	0.008	10/30/2017 23:55	0.009
10/30/2017 22:24	0.009	10/30/2017 23:10	0.008	10/30/2017 23:56	0.009
10/30/2017 22:25	0.008	10/30/2017 23:11	0.008	10/30/2017 23:57	0.01
10/30/2017 22:26	0.008	10/30/2017 23:12	0.008	10/30/2017 23:58	0.01
10/30/2017 22:27	0.009	10/30/2017 23:13	0.008	10/30/2017 23:59	0.01
10/30/2017 22:28	0.008	10/30/2017 23:14	0.008	10/31/2017 0:00	0.009
10/30/2017 22:29	0.008	10/30/2017 23:15	0.008	10/31/2017 0:01	0.009
10/30/2017 22:30	0.008	10/30/2017 23:16	0.008	10/31/2017 0:02	0.01
10/30/2017 22:31	0.008	10/30/2017 23:17	0.008	10/31/2017 0:03	0.01
10/30/2017 22:32	0.008	10/30/2017 23:18	0.008	10/31/2017 0:04	0.01
10/30/2017 22:33	0.008	10/30/2017 23:19	0.008	10/31/2017 0:05	0.01
10/30/2017 22:34	0.009	10/30/2017 23:20	0.008	10/31/2017 0:06	0.01
10/30/2017 22:35	0.009	10/30/2017 23:21	0.008	10/31/2017 0:07	0.01
10/30/2017 22:36	0.009	10/30/2017 23:22	0.008	10/31/2017 0:08	0.011

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/31/2017 0:09	0.011	10/31/2017 0:55	0.011	10/31/2017 1:41	0.011
10/31/2017 0:10	0.01	10/31/2017 0:56	0.011	10/31/2017 1:42	0.011
10/31/2017 0:11	0.011	10/31/2017 0:57	0.011	10/31/2017 1:43	0.011
10/31/2017 0:12	0.01	10/31/2017 0:58	0.011	10/31/2017 1:44	0.011
10/31/2017 0:13	0.01	10/31/2017 0:59	0.01	10/31/2017 1:45	0.011
10/31/2017 0:14	0.01	10/31/2017 1:00	0.01	10/31/2017 1:46	0.011
10/31/2017 0:15	0.011	10/31/2017 1:01	0.011	10/31/2017 1:47	0.011
10/31/2017 0:16	0.01	10/31/2017 1:02	0.011	10/31/2017 1:48	0.011
10/31/2017 0:17	0.01	10/31/2017 1:03	0.011	10/31/2017 1:49	0.01
10/31/2017 0:18	0.01	10/31/2017 1:04	0.011	10/31/2017 1:50	0.011
10/31/2017 0:19	0.01	10/31/2017 1:05	0.011	10/31/2017 1:51	0.011
10/31/2017 0:20	0.011	10/31/2017 1:06	0.011	10/31/2017 1:52	0.01
10/31/2017 0:21	0.011	10/31/2017 1:07	0.011	10/31/2017 1:53	0.011
10/31/2017 0:22	0.011	10/31/2017 1:08	0.011	10/31/2017 1:54	0.011
10/31/2017 0:23	0.011	10/31/2017 1:09	0.011	10/31/2017 1:55	0.011
10/31/2017 0:24	0.01	10/31/2017 1:10	0.011	10/31/2017 1:56	0.01
10/31/2017 0:25	0.011	10/31/2017 1:11	0.011	10/31/2017 1:57	0.011
10/31/2017 0:26	0.011	10/31/2017 1:12	0.011	10/31/2017 1:58	0.011
10/31/2017 0:27	0.011	10/31/2017 1:13	0.011	10/31/2017 1:59	0.011
10/31/2017 0:28	0.011	10/31/2017 1:14	0.011	10/31/2017 2:00	0.011
10/31/2017 0:29	0.011	10/31/2017 1:15	0.011	10/31/2017 2:01	0.011
10/31/2017 0:30	0.011	10/31/2017 1:16	0.011	10/31/2017 2:02	0.011
10/31/2017 0:31	0.011	10/31/2017 1:17	0.011	10/31/2017 2:03	0.011
10/31/2017 0:32	0.011	10/31/2017 1:18	0.011	10/31/2017 2:04	0.01
10/31/2017 0:33	0.011	10/31/2017 1:19	0.011	10/31/2017 2:05	0.011
10/31/2017 0:34	0.01	10/31/2017 1:20	0.011	10/31/2017 2:06	0.011
10/31/2017 0:35	0.011	10/31/2017 1:21	0.011	10/31/2017 2:07	0.011
10/31/2017 0:36	0.011	10/31/2017 1:22	0.011	10/31/2017 2:08	0.011
10/31/2017 0:37	0.011	10/31/2017 1:23	0.011	10/31/2017 2:09	0.01
10/31/2017 0:38	0.011	10/31/2017 1:24	0.01	10/31/2017 2:10	0.011
10/31/2017 0:39	0.011	10/31/2017 1:25	0.011	10/31/2017 2:11	0.01
10/31/2017 0:40	0.011	10/31/2017 1:26	0.011	10/31/2017 2:12	0.011
10/31/2017 0:41	0.01	10/31/2017 1:27	0.011	10/31/2017 2:13	0.011
10/31/2017 0:42	0.011	10/31/2017 1:28	0.011	10/31/2017 2:14	0.011
10/31/2017 0:43	0.011	10/31/2017 1:29	0.011	10/31/2017 2:15	0.011
10/31/2017 0:44	0.012	10/31/2017 1:30	0.011	10/31/2017 2:16	0.011
10/31/2017 0:45	0.011	10/31/2017 1:31	0.011	10/31/2017 2:17	0.01
10/31/2017 0:46	0.011	10/31/2017 1:32	0.011	10/31/2017 2:18	0.011
10/31/2017 0:47	0.011	10/31/2017 1:33	0.011	10/31/2017 2:19	0.011
10/31/2017 0:48	0.011	10/31/2017 1:34	0.011	10/31/2017 2:20	0.011
10/31/2017 0:49	0.011	10/31/2017 1:35	0.011	10/31/2017 2:21	0.011
10/31/2017 0:50	0.011	10/31/2017 1:36	0.011	10/31/2017 2:22	0.01
10/31/2017 0:51	0.011	10/31/2017 1:37	0.011	10/31/2017 2:23	0.011
10/31/2017 0:52	0.011	10/31/2017 1:38	0.011	10/31/2017 2:24	0.011
10/31/2017 0:53	0.011	10/31/2017 1:39	0.011	10/31/2017 2:25	0.011
10/31/2017 0:54	0.011	10/31/2017 1:40	0.011	10/31/2017 2:26	0.011

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
10/31/2017 2:27	0.011
10/31/2017 2:28	0.01
10/31/2017 2:29	0.01
10/31/2017 2:30	0.011
10/31/2017 2:31	0.011
10/31/2017 2:32	0.01
10/31/2017 2:33	0.01
10/31/2017 2:34	0.01
10/31/2017 2:35	0.011
10/31/2017 2:36	0.01
10/31/2017 2:37	0.01
10/31/2017 2:38	0.011
10/31/2017 2:39	0.011
10/31/2017 2:40	0.011
10/31/2017 2:41	0.011
10/31/2017 2:42	0.011
10/31/2017 2:43	0.011
10/31/2017 2:44	0.01
10/31/2017 2:45	0.01
10/31/2017 2:46	0.01
10/31/2017 2:47	0.011
10/31/2017 2:48	0.01
10/31/2017 2:49	0.01
10/31/2017 2:50	0.011
10/31/2017 2:51	0.011
10/31/2017 2:52	0.011
10/31/2017 2:53	0.01

Location 2				Total Average (mg/m ³) = 0.011	
Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 11:17	0.01	11/1/2017 12:00	0.011	11/1/2017 12:43	0.011
11/1/2017 11:18	0.01	11/1/2017 12:01	0.011	11/1/2017 12:44	0.011
11/1/2017 11:19	0.01	11/1/2017 12:02	0.011	11/1/2017 12:45	0.011
11/1/2017 11:20	0.01	11/1/2017 12:03	0.01	11/1/2017 12:46	0.011
11/1/2017 11:21	0.01	11/1/2017 12:04	0.011	11/1/2017 12:47	0.011
11/1/2017 11:22	0.01	11/1/2017 12:05	0.011	11/1/2017 12:48	0.011
11/1/2017 11:23	0.01	11/1/2017 12:06	0.011	11/1/2017 12:49	0.011
11/1/2017 11:24	0.01	11/1/2017 12:07	0.011	11/1/2017 12:50	0.011
11/1/2017 11:25	0.01	11/1/2017 12:08	0.011	11/1/2017 12:51	0.011
11/1/2017 11:26	0.01	11/1/2017 12:09	0.011	11/1/2017 12:52	0.011
11/1/2017 11:27	0.01	11/1/2017 12:10	0.011	11/1/2017 12:53	0.011
11/1/2017 11:28	0.01	11/1/2017 12:11	0.011	11/1/2017 12:54	0.011
11/1/2017 11:29	0.01	11/1/2017 12:12	0.011	11/1/2017 12:55	0.011
11/1/2017 11:30	0.01	11/1/2017 12:13	0.011	11/1/2017 12:56	0.011
11/1/2017 11:31	0.01	11/1/2017 12:14	0.011	11/1/2017 12:57	0.011
11/1/2017 11:32	0.01	11/1/2017 12:15	0.011	11/1/2017 12:58	0.011
11/1/2017 11:33	0.01	11/1/2017 12:16	0.011	11/1/2017 12:59	0.011
11/1/2017 11:34	0.01	11/1/2017 12:17	0.011	11/1/2017 13:00	0.011
11/1/2017 11:35	0.01	11/1/2017 12:18	0.011	11/1/2017 13:01	0.011
11/1/2017 11:36	0.01	11/1/2017 12:19	0.011	11/1/2017 13:02	0.011
11/1/2017 11:37	0.01	11/1/2017 12:20	0.011	11/1/2017 13:03	0.011
11/1/2017 11:38	0.01	11/1/2017 12:21	0.011	11/1/2017 13:04	0.011
11/1/2017 11:39	0.01	11/1/2017 12:22	0.011	11/1/2017 13:05	0.011
11/1/2017 11:40	0.01	11/1/2017 12:23	0.011	11/1/2017 13:06	0.011
11/1/2017 11:41	0.011	11/1/2017 12:24	0.011	11/1/2017 13:07	0.011
11/1/2017 11:42	0.01	11/1/2017 12:25	0.011	11/1/2017 13:08	0.011
11/1/2017 11:43	0.01	11/1/2017 12:26	0.011	11/1/2017 13:09	0.012
11/1/2017 11:44	0.01	11/1/2017 12:27	0.011	11/1/2017 13:10	0.012
11/1/2017 11:45	0.012	11/1/2017 12:28	0.011	11/1/2017 13:11	0.012
11/1/2017 11:46	0.01	11/1/2017 12:29	0.018	11/1/2017 13:12	0.012
11/1/2017 11:47	0.01	11/1/2017 12:30	0.011	11/1/2017 13:13	0.011
11/1/2017 11:48	0.011	11/1/2017 12:31	0.011	11/1/2017 13:14	0.012
11/1/2017 11:49	0.01	11/1/2017 12:32	0.011	11/1/2017 13:15	0.012
11/1/2017 11:50	0.011	11/1/2017 12:33	0.01	11/1/2017 13:16	0.011
11/1/2017 11:51	0.011	11/1/2017 12:34	0.011	11/1/2017 13:17	0.011
11/1/2017 11:52	0.011	11/1/2017 12:35	0.01	11/1/2017 13:18	0.012
11/1/2017 11:53	0.011	11/1/2017 12:36	0.01	11/1/2017 13:19	0.011
11/1/2017 11:54	0.01	11/1/2017 12:37	0.011	11/1/2017 13:20	0.011
11/1/2017 11:55	0.01	11/1/2017 12:38	0.01	11/1/2017 13:21	0.011
11/1/2017 11:56	0.01	11/1/2017 12:39	0.011	11/1/2017 13:22	0.011
11/1/2017 11:57	0.01	11/1/2017 12:40	0.011	11/1/2017 13:23	0.011
11/1/2017 11:58	0.01	11/1/2017 12:41	0.011	11/1/2017 13:24	0.011
11/1/2017 11:59	0.01	11/1/2017 12:42	0.011	11/1/2017 13:25	0.011

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 13:26	0.011
11/1/2017 13:27	0.011
11/1/2017 13:28	0.011
11/1/2017 13:29	0.011
11/1/2017 13:30	0.011
11/1/2017 13:31	0.011
11/1/2017 13:32	0.011
11/1/2017 13:33	0.011
11/1/2017 13:34	0.011
11/1/2017 13:35	0.011
11/1/2017 13:36	0.011
11/1/2017 13:37	0.011
11/1/2017 13:38	0.011
11/1/2017 13:39	0.011
11/1/2017 13:40	0.011
11/1/2017 13:41	0.011
11/1/2017 13:42	0.011
11/1/2017 13:43	0.011
11/1/2017 13:44	0.011
11/1/2017 13:45	0.011
11/1/2017 13:46	0.011
11/1/2017 13:47	0.011
11/1/2017 13:48	0.011
11/1/2017 13:49	0.011
11/1/2017 13:50	0.011
11/1/2017 13:51	0.011
11/1/2017 13:52	0.011
11/1/2017 13:53	0.011
11/1/2017 13:54	0.011
11/1/2017 13:55	0.011
11/1/2017 13:56	0.011
11/1/2017 13:57	0.011
11/1/2017 13:58	0.011
11/1/2017 13:59	0.011

Location 3				Total Average (mg/m ³) = 0.016	
Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 14:22	0.011	11/1/2017 15:05	0.012	11/1/2017 15:48	0.013
11/1/2017 14:23	0.011	11/1/2017 15:06	0.012	11/1/2017 15:49	0.012
11/1/2017 14:24	0.011	11/1/2017 15:07	0.012	11/1/2017 15:50	0.012
11/1/2017 14:25	0.011	11/1/2017 15:08	0.012	11/1/2017 15:51	0.013
11/1/2017 14:26	0.011	11/1/2017 15:09	0.012	11/1/2017 15:52	0.013
11/1/2017 14:27	0.011	11/1/2017 15:10	0.012	11/1/2017 15:53	0.013
11/1/2017 14:28	0.011	11/1/2017 15:11	0.012	11/1/2017 15:54	0.013
11/1/2017 14:29	0.011	11/1/2017 15:12	0.012	11/1/2017 15:55	0.013
11/1/2017 14:30	0.011	11/1/2017 15:13	0.012	11/1/2017 15:56	0.013
11/1/2017 14:31	0.011	11/1/2017 15:14	0.012	11/1/2017 15:57	0.013
11/1/2017 14:32	0.011	11/1/2017 15:15	0.012	11/1/2017 15:58	0.013
11/1/2017 14:33	0.011	11/1/2017 15:16	0.013	11/1/2017 15:59	0.013
11/1/2017 14:34	0.011	11/1/2017 15:17	0.012	11/1/2017 16:00	0.013
11/1/2017 14:35	0.011	11/1/2017 15:18	0.012	11/1/2017 16:01	0.013
11/1/2017 14:36	0.011	11/1/2017 15:19	0.013	11/1/2017 16:02	0.013
11/1/2017 14:37	0.011	11/1/2017 15:20	0.012	11/1/2017 16:03	0.013
11/1/2017 14:38	0.011	11/1/2017 15:21	0.012	11/1/2017 16:04	0.013
11/1/2017 14:39	0.011	11/1/2017 15:22	0.012	11/1/2017 16:05	0.013
11/1/2017 14:40	0.011	11/1/2017 15:23	0.012	11/1/2017 16:06	0.013
11/1/2017 14:41	0.011	11/1/2017 15:24	0.012	11/1/2017 16:07	0.013
11/1/2017 14:42	0.011	11/1/2017 15:25	0.013	11/1/2017 16:08	0.013
11/1/2017 14:43	0.011	11/1/2017 15:26	0.012	11/1/2017 16:09	0.013
11/1/2017 14:44	0.012	11/1/2017 15:27	0.012	11/1/2017 16:10	0.013
11/1/2017 14:45	0.011	11/1/2017 15:28	0.012	11/1/2017 16:11	0.013
11/1/2017 14:46	0.011	11/1/2017 15:29	0.012	11/1/2017 16:12	0.014
11/1/2017 14:47	0.011	11/1/2017 15:30	0.013	11/1/2017 16:13	0.013
11/1/2017 14:48	0.011	11/1/2017 15:31	0.013	11/1/2017 16:14	0.013
11/1/2017 14:49	0.012	11/1/2017 15:32	0.012	11/1/2017 16:15	0.013
11/1/2017 14:50	0.012	11/1/2017 15:33	0.012	11/1/2017 16:16	0.013
11/1/2017 14:51	0.011	11/1/2017 15:34	0.012	11/1/2017 16:17	0.013
11/1/2017 14:52	0.012	11/1/2017 15:35	0.012	11/1/2017 16:18	0.013
11/1/2017 14:53	0.012	11/1/2017 15:36	0.012	11/1/2017 16:19	0.013
11/1/2017 14:54	0.011	11/1/2017 15:37	0.012	11/1/2017 16:20	0.013
11/1/2017 14:55	0.012	11/1/2017 15:38	0.012	11/1/2017 16:21	0.013
11/1/2017 14:56	0.012	11/1/2017 15:39	0.012	11/1/2017 16:22	0.014
11/1/2017 14:57	0.012	11/1/2017 15:40	0.012	11/1/2017 16:23	0.013
11/1/2017 14:58	0.012	11/1/2017 15:41	0.012	11/1/2017 16:24	0.014
11/1/2017 14:59	0.012	11/1/2017 15:42	0.013	11/1/2017 16:25	0.014
11/1/2017 15:00	0.012	11/1/2017 15:43	0.013	11/1/2017 16:26	0.014
11/1/2017 15:01	0.012	11/1/2017 15:44	0.013	11/1/2017 16:27	0.014
11/1/2017 15:02	0.012	11/1/2017 15:45	0.013	11/1/2017 16:28	0.014
11/1/2017 15:03	0.012	11/1/2017 15:46	0.013	11/1/2017 16:29	0.014
11/1/2017 15:04	0.012	11/1/2017 15:47	0.013	11/1/2017 16:30	0.014

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 16:31	0.014	11/1/2017 17:17	0.013	11/1/2017 18:03	0.011
11/1/2017 16:32	0.014	11/1/2017 17:18	0.013	11/1/2017 18:04	0.011
11/1/2017 16:33	0.014	11/1/2017 17:19	0.013	11/1/2017 18:05	0.011
11/1/2017 16:34	0.013	11/1/2017 17:20	0.012	11/1/2017 18:06	0.011
11/1/2017 16:35	0.014	11/1/2017 17:21	0.012	11/1/2017 18:07	0.011
11/1/2017 16:36	0.014	11/1/2017 17:22	0.012	11/1/2017 18:08	0.011
11/1/2017 16:37	0.013	11/1/2017 17:23	0.012	11/1/2017 18:09	0.011
11/1/2017 16:38	0.013	11/1/2017 17:24	0.012	11/1/2017 18:10	0.011
11/1/2017 16:39	0.014	11/1/2017 17:25	0.012	11/1/2017 18:11	0.011
11/1/2017 16:40	0.014	11/1/2017 17:26	0.012	11/1/2017 18:12	0.011
11/1/2017 16:41	0.014	11/1/2017 17:27	0.012	11/1/2017 18:13	0.011
11/1/2017 16:42	0.014	11/1/2017 17:28	0.012	11/1/2017 18:14	0.011
11/1/2017 16:43	0.014	11/1/2017 17:29	0.012	11/1/2017 18:15	0.012
11/1/2017 16:44	0.015	11/1/2017 17:30	0.012	11/1/2017 18:16	0.011
11/1/2017 16:45	0.014	11/1/2017 17:31	0.012	11/1/2017 18:17	0.011
11/1/2017 16:46	0.014	11/1/2017 17:32	0.012	11/1/2017 18:18	0.011
11/1/2017 16:47	0.014	11/1/2017 17:33	0.012	11/1/2017 18:19	0.011
11/1/2017 16:48	0.014	11/1/2017 17:34	0.012	11/1/2017 18:20	0.011
11/1/2017 16:49	0.014	11/1/2017 17:35	0.012	11/1/2017 18:21	0.011
11/1/2017 16:50	0.014	11/1/2017 17:36	0.012	11/1/2017 18:22	0.012
11/1/2017 16:51	0.014	11/1/2017 17:37	0.012	11/1/2017 18:23	0.012
11/1/2017 16:52	0.014	11/1/2017 17:38	0.012	11/1/2017 18:24	0.011
11/1/2017 16:53	0.014	11/1/2017 17:39	0.011	11/1/2017 18:25	0.012
11/1/2017 16:54	0.014	11/1/2017 17:40	0.012	11/1/2017 18:26	0.012
11/1/2017 16:55	0.014	11/1/2017 17:41	0.012	11/1/2017 18:27	0.012
11/1/2017 16:56	0.014	11/1/2017 17:42	0.012	11/1/2017 18:28	0.011
11/1/2017 16:57	0.014	11/1/2017 17:43	0.012	11/1/2017 18:29	0.012
11/1/2017 16:58	0.014	11/1/2017 17:44	0.012	11/1/2017 18:30	0.012
11/1/2017 16:59	0.014	11/1/2017 17:45	0.012	11/1/2017 18:31	0.012
11/1/2017 17:00	0.014	11/1/2017 17:46	0.011	11/1/2017 18:32	0.012
11/1/2017 17:01	0.014	11/1/2017 17:47	0.012	11/1/2017 18:33	0.012
11/1/2017 17:02	0.014	11/1/2017 17:48	0.012	11/1/2017 18:34	0.012
11/1/2017 17:03	0.014	11/1/2017 17:49	0.011	11/1/2017 18:35	0.012
11/1/2017 17:04	0.014	11/1/2017 17:50	0.012	11/1/2017 18:36	0.012
11/1/2017 17:05	0.014	11/1/2017 17:51	0.011	11/1/2017 18:37	0.012
11/1/2017 17:06	0.013	11/1/2017 17:52	0.011	11/1/2017 18:38	0.012
11/1/2017 17:07	0.013	11/1/2017 17:53	0.011	11/1/2017 18:39	0.012
11/1/2017 17:08	0.013	11/1/2017 17:54	0.011	11/1/2017 18:40	0.013
11/1/2017 17:09	0.013	11/1/2017 17:55	0.011	11/1/2017 18:41	0.013
11/1/2017 17:10	0.013	11/1/2017 17:56	0.011	11/1/2017 18:42	0.012
11/1/2017 17:11	0.013	11/1/2017 17:57	0.011	11/1/2017 18:43	0.013
11/1/2017 17:12	0.013	11/1/2017 17:58	0.011	11/1/2017 18:44	0.012
11/1/2017 17:13	0.013	11/1/2017 17:59	0.011	11/1/2017 18:45	0.012
11/1/2017 17:14	0.013	11/1/2017 18:00	0.011	11/1/2017 18:46	0.012
11/1/2017 17:15	0.013	11/1/2017 18:01	0.011	11/1/2017 18:47	0.012
11/1/2017 17:16	0.013	11/1/2017 18:02	0.011	11/1/2017 18:48	0.012

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 18:49	0.012	11/1/2017 19:35	0.014	11/1/2017 20:21	0.014
11/1/2017 18:50	0.012	11/1/2017 19:36	0.014	11/1/2017 20:22	0.015
11/1/2017 18:51	0.012	11/1/2017 19:37	0.015	11/1/2017 20:23	0.015
11/1/2017 18:52	0.012	11/1/2017 19:38	0.014	11/1/2017 20:24	0.014
11/1/2017 18:53	0.012	11/1/2017 19:39	0.015	11/1/2017 20:25	0.014
11/1/2017 18:54	0.012	11/1/2017 19:40	0.014	11/1/2017 20:26	0.014
11/1/2017 18:55	0.012	11/1/2017 19:41	0.015	11/1/2017 20:27	0.014
11/1/2017 18:56	0.013	11/1/2017 19:42	0.015	11/1/2017 20:28	0.014
11/1/2017 18:57	0.012	11/1/2017 19:43	0.014	11/1/2017 20:29	0.014
11/1/2017 18:58	0.013	11/1/2017 19:44	0.014	11/1/2017 20:30	0.014
11/1/2017 18:59	0.012	11/1/2017 19:45	0.015	11/1/2017 20:31	0.014
11/1/2017 19:00	0.012	11/1/2017 19:46	0.014	11/1/2017 20:32	0.014
11/1/2017 19:01	0.012	11/1/2017 19:47	0.014	11/1/2017 20:33	0.015
11/1/2017 19:02	0.012	11/1/2017 19:48	0.014	11/1/2017 20:34	0.015
11/1/2017 19:03	0.012	11/1/2017 19:49	0.014	11/1/2017 20:35	0.016
11/1/2017 19:04	0.012	11/1/2017 19:50	0.014	11/1/2017 20:36	0.015
11/1/2017 19:05	0.012	11/1/2017 19:51	0.014	11/1/2017 20:37	0.014
11/1/2017 19:06	0.013	11/1/2017 19:52	0.015	11/1/2017 20:38	0.014
11/1/2017 19:07	0.013	11/1/2017 19:53	0.014	11/1/2017 20:39	0.014
11/1/2017 19:08	0.012	11/1/2017 19:54	0.015	11/1/2017 20:40	0.014
11/1/2017 19:09	0.012	11/1/2017 19:55	0.014	11/1/2017 20:41	0.014
11/1/2017 19:10	0.013	11/1/2017 19:56	0.014	11/1/2017 20:42	0.015
11/1/2017 19:11	0.013	11/1/2017 19:57	0.014	11/1/2017 20:43	0.014
11/1/2017 19:12	0.013	11/1/2017 19:58	0.014	11/1/2017 20:44	0.014
11/1/2017 19:13	0.013	11/1/2017 19:59	0.014	11/1/2017 20:45	0.014
11/1/2017 19:14	0.013	11/1/2017 20:00	0.014	11/1/2017 20:46	0.014
11/1/2017 19:15	0.013	11/1/2017 20:01	0.014	11/1/2017 20:47	0.014
11/1/2017 19:16	0.013	11/1/2017 20:02	0.015	11/1/2017 20:48	0.014
11/1/2017 19:17	0.014	11/1/2017 20:03	0.015	11/1/2017 20:49	0.014
11/1/2017 19:18	0.013	11/1/2017 20:04	0.015	11/1/2017 20:50	0.014
11/1/2017 19:19	0.013	11/1/2017 20:05	0.014	11/1/2017 20:51	0.014
11/1/2017 19:20	0.013	11/1/2017 20:06	0.014	11/1/2017 20:52	0.014
11/1/2017 19:21	0.013	11/1/2017 20:07	0.015	11/1/2017 20:53	0.014
11/1/2017 19:22	0.014	11/1/2017 20:08	0.015	11/1/2017 20:54	0.014
11/1/2017 19:23	0.013	11/1/2017 20:09	0.015	11/1/2017 20:55	0.015
11/1/2017 19:24	0.014	11/1/2017 20:10	0.015	11/1/2017 20:56	0.015
11/1/2017 19:25	0.013	11/1/2017 20:11	0.014	11/1/2017 20:57	0.015
11/1/2017 19:26	0.013	11/1/2017 20:12	0.015	11/1/2017 20:58	0.015
11/1/2017 19:27	0.013	11/1/2017 20:13	0.015	11/1/2017 20:59	0.016
11/1/2017 19:28	0.013	11/1/2017 20:14	0.014	11/1/2017 21:00	0.016
11/1/2017 19:29	0.013	11/1/2017 20:15	0.014	11/1/2017 21:01	0.015
11/1/2017 19:30	0.014	11/1/2017 20:16	0.014	11/1/2017 21:02	0.016
11/1/2017 19:31	0.013	11/1/2017 20:17	0.014	11/1/2017 21:03	0.015
11/1/2017 19:32	0.014	11/1/2017 20:18	0.014	11/1/2017 21:04	0.015
11/1/2017 19:33	0.014	11/1/2017 20:19	0.014	11/1/2017 21:05	0.015
11/1/2017 19:34	0.014	11/1/2017 20:20	0.015	11/1/2017 21:06	0.015

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 21:07	0.015	11/1/2017 21:53	0.017	11/1/2017 22:39	0.016
11/1/2017 21:08	0.015	11/1/2017 21:54	0.016	11/1/2017 22:40	0.016
11/1/2017 21:09	0.016	11/1/2017 21:55	0.016	11/1/2017 22:41	0.015
11/1/2017 21:10	0.015	11/1/2017 21:56	0.016	11/1/2017 22:42	0.016
11/1/2017 21:11	0.016	11/1/2017 21:57	0.016	11/1/2017 22:43	0.015
11/1/2017 21:12	0.015	11/1/2017 21:58	0.016	11/1/2017 22:44	0.015
11/1/2017 21:13	0.016	11/1/2017 21:59	0.016	11/1/2017 22:45	0.015
11/1/2017 21:14	0.015	11/1/2017 22:00	0.016	11/1/2017 22:46	0.015
11/1/2017 21:15	0.015	11/1/2017 22:01	0.016	11/1/2017 22:47	0.015
11/1/2017 21:16	0.015	11/1/2017 22:02	0.016	11/1/2017 22:48	0.015
11/1/2017 21:17	0.015	11/1/2017 22:03	0.017	11/1/2017 22:49	0.016
11/1/2017 21:18	0.015	11/1/2017 22:04	0.016	11/1/2017 22:50	0.016
11/1/2017 21:19	0.015	11/1/2017 22:05	0.016	11/1/2017 22:51	0.015
11/1/2017 21:20	0.015	11/1/2017 22:06	0.017	11/1/2017 22:52	0.015
11/1/2017 21:21	0.015	11/1/2017 22:07	0.016	11/1/2017 22:53	0.015
11/1/2017 21:22	0.016	11/1/2017 22:08	0.016	11/1/2017 22:54	0.016
11/1/2017 21:23	0.016	11/1/2017 22:09	0.016	11/1/2017 22:55	0.016
11/1/2017 21:24	0.016	11/1/2017 22:10	0.016	11/1/2017 22:56	0.015
11/1/2017 21:25	0.015	11/1/2017 22:11	0.016	11/1/2017 22:57	0.016
11/1/2017 21:26	0.016	11/1/2017 22:12	0.016	11/1/2017 22:58	0.016
11/1/2017 21:27	0.016	11/1/2017 22:13	0.016	11/1/2017 22:59	0.016
11/1/2017 21:28	0.016	11/1/2017 22:14	0.016	11/1/2017 23:00	0.016
11/1/2017 21:29	0.016	11/1/2017 22:15	0.016	11/1/2017 23:01	0.016
11/1/2017 21:30	0.016	11/1/2017 22:16	0.015	11/1/2017 23:02	0.016
11/1/2017 21:31	0.016	11/1/2017 22:17	0.016	11/1/2017 23:03	0.016
11/1/2017 21:32	0.016	11/1/2017 22:18	0.016	11/1/2017 23:04	0.016
11/1/2017 21:33	0.015	11/1/2017 22:19	0.016	11/1/2017 23:05	0.016
11/1/2017 21:34	0.016	11/1/2017 22:20	0.016	11/1/2017 23:06	0.016
11/1/2017 21:35	0.015	11/1/2017 22:21	0.016	11/1/2017 23:07	0.016
11/1/2017 21:36	0.016	11/1/2017 22:22	0.016	11/1/2017 23:08	0.016
11/1/2017 21:37	0.016	11/1/2017 22:23	0.016	11/1/2017 23:09	0.016
11/1/2017 21:38	0.015	11/1/2017 22:24	0.016	11/1/2017 23:10	0.016
11/1/2017 21:39	0.015	11/1/2017 22:25	0.016	11/1/2017 23:11	0.016
11/1/2017 21:40	0.015	11/1/2017 22:26	0.016	11/1/2017 23:12	0.016
11/1/2017 21:41	0.016	11/1/2017 22:27	0.016	11/1/2017 23:13	0.016
11/1/2017 21:42	0.015	11/1/2017 22:28	0.016	11/1/2017 23:14	0.016
11/1/2017 21:43	0.016	11/1/2017 22:29	0.016	11/1/2017 23:15	0.016
11/1/2017 21:44	0.016	11/1/2017 22:30	0.016	11/1/2017 23:16	0.016
11/1/2017 21:45	0.016	11/1/2017 22:31	0.016	11/1/2017 23:17	0.016
11/1/2017 21:46	0.016	11/1/2017 22:32	0.016	11/1/2017 23:18	0.016
11/1/2017 21:47	0.016	11/1/2017 22:33	0.016	11/1/2017 23:19	0.016
11/1/2017 21:48	0.016	11/1/2017 22:34	0.016	11/1/2017 23:20	0.016
11/1/2017 21:49	0.016	11/1/2017 22:35	0.016	11/1/2017 23:21	0.015
11/1/2017 21:50	0.016	11/1/2017 22:36	0.016	11/1/2017 23:22	0.016
11/1/2017 21:51	0.016	11/1/2017 22:37	0.016	11/1/2017 23:23	0.016
11/1/2017 21:52	0.016	11/1/2017 22:38	0.016	11/1/2017 23:24	0.015

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/1/2017 23:25	0.015	11/2/2017 0:11	0.019	11/2/2017 0:57	0.016
11/1/2017 23:26	0.016	11/2/2017 0:12	0.018	11/2/2017 0:58	0.016
11/1/2017 23:27	0.015	11/2/2017 0:13	0.018	11/2/2017 0:59	0.016
11/1/2017 23:28	0.016	11/2/2017 0:14	0.018	11/2/2017 1:00	0.016
11/1/2017 23:29	0.015	11/2/2017 0:15	0.018	11/2/2017 1:01	0.016
11/1/2017 23:30	0.015	11/2/2017 0:16	0.018	11/2/2017 1:02	0.016
11/1/2017 23:31	0.015	11/2/2017 0:17	0.018	11/2/2017 1:03	0.016
11/1/2017 23:32	0.015	11/2/2017 0:18	0.019	11/2/2017 1:04	0.015
11/1/2017 23:33	0.015	11/2/2017 0:19	0.018	11/2/2017 1:05	0.015
11/1/2017 23:34	0.015	11/2/2017 0:20	0.018	11/2/2017 1:06	0.016
11/1/2017 23:35	0.015	11/2/2017 0:21	0.018	11/2/2017 1:07	0.016
11/1/2017 23:36	0.015	11/2/2017 0:22	0.018	11/2/2017 1:08	0.016
11/1/2017 23:37	0.016	11/2/2017 0:23	0.018	11/2/2017 1:09	0.016
11/1/2017 23:38	0.015	11/2/2017 0:24	0.019	11/2/2017 1:10	0.017
11/1/2017 23:39	0.016	11/2/2017 0:25	0.019	11/2/2017 1:11	0.018
11/1/2017 23:40	0.016	11/2/2017 0:26	0.019	11/2/2017 1:12	0.017
11/1/2017 23:41	0.016	11/2/2017 0:27	0.018	11/2/2017 1:13	0.018
11/1/2017 23:42	0.016	11/2/2017 0:28	0.018	11/2/2017 1:14	0.018
11/1/2017 23:43	0.016	11/2/2017 0:29	0.018	11/2/2017 1:15	0.019
11/1/2017 23:44	0.016	11/2/2017 0:30	0.018	11/2/2017 1:16	0.019
11/1/2017 23:45	0.016	11/2/2017 0:31	0.018	11/2/2017 1:17	0.019
11/1/2017 23:46	0.016	11/2/2017 0:32	0.018	11/2/2017 1:18	0.019
11/1/2017 23:47	0.016	11/2/2017 0:33	0.017	11/2/2017 1:19	0.019
11/1/2017 23:48	0.016	11/2/2017 0:34	0.018	11/2/2017 1:20	0.019
11/1/2017 23:49	0.016	11/2/2017 0:35	0.018	11/2/2017 1:21	0.019
11/1/2017 23:50	0.016	11/2/2017 0:36	0.017	11/2/2017 1:22	0.019
11/1/2017 23:51	0.016	11/2/2017 0:37	0.017	11/2/2017 1:23	0.019
11/1/2017 23:52	0.016	11/2/2017 0:38	0.017	11/2/2017 1:24	0.019
11/1/2017 23:53	0.016	11/2/2017 0:39	0.017	11/2/2017 1:25	0.019
11/1/2017 23:54	0.016	11/2/2017 0:40	0.017	11/2/2017 1:26	0.019
11/1/2017 23:55	0.016	11/2/2017 0:41	0.017	11/2/2017 1:27	0.019
11/1/2017 23:56	0.016	11/2/2017 0:42	0.016	11/2/2017 1:28	0.019
11/1/2017 23:57	0.017	11/2/2017 0:43	0.017	11/2/2017 1:29	0.019
11/1/2017 23:58	0.016	11/2/2017 0:44	0.016	11/2/2017 1:30	0.02
11/1/2017 23:59	0.016	11/2/2017 0:45	0.016	11/2/2017 1:31	0.02
11/2/2017 0:00	0.016	11/2/2017 0:46	0.016	11/2/2017 1:32	0.02
11/2/2017 0:01	0.016	11/2/2017 0:47	0.016	11/2/2017 1:33	0.019
11/2/2017 0:02	0.016	11/2/2017 0:48	0.016	11/2/2017 1:34	0.019
11/2/2017 0:03	0.016	11/2/2017 0:49	0.016	11/2/2017 1:35	0.02
11/2/2017 0:04	0.017	11/2/2017 0:50	0.016	11/2/2017 1:36	0.019
11/2/2017 0:05	0.016	11/2/2017 0:51	0.015	11/2/2017 1:37	0.019
11/2/2017 0:06	0.017	11/2/2017 0:52	0.015	11/2/2017 1:38	0.019
11/2/2017 0:07	0.017	11/2/2017 0:53	0.015	11/2/2017 1:39	0.019
11/2/2017 0:08	0.017	11/2/2017 0:54	0.015	11/2/2017 1:40	0.019
11/2/2017 0:09	0.018	11/2/2017 0:55	0.015	11/2/2017 1:41	0.019
11/2/2017 0:10	0.019	11/2/2017 0:56	0.015	11/2/2017 1:42	0.019

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 1:43	0.019	11/2/2017 2:29	0.025	11/2/2017 3:15	0.024
11/2/2017 1:44	0.018	11/2/2017 2:30	0.025	11/2/2017 3:16	0.025
11/2/2017 1:45	0.018	11/2/2017 2:31	0.025	11/2/2017 3:17	0.026
11/2/2017 1:46	0.018	11/2/2017 2:32	0.026	11/2/2017 3:18	0.026
11/2/2017 1:47	0.018	11/2/2017 2:33	0.027	11/2/2017 3:19	0.025
11/2/2017 1:48	0.018	11/2/2017 2:34	0.027	11/2/2017 3:20	0.025
11/2/2017 1:49	0.018	11/2/2017 2:35	0.027	11/2/2017 3:21	0.026
11/2/2017 1:50	0.017	11/2/2017 2:36	0.027	11/2/2017 3:22	0.025
11/2/2017 1:51	0.017	11/2/2017 2:37	0.026	11/2/2017 3:23	0.025
11/2/2017 1:52	0.017	11/2/2017 2:38	0.026	11/2/2017 3:24	0.024
11/2/2017 1:53	0.017	11/2/2017 2:39	0.027	11/2/2017 3:25	0.025
11/2/2017 1:54	0.017	11/2/2017 2:40	0.026	11/2/2017 3:26	0.025
11/2/2017 1:55	0.017	11/2/2017 2:41	0.027	11/2/2017 3:27	0.025
11/2/2017 1:56	0.016	11/2/2017 2:42	0.028	11/2/2017 3:28	0.026
11/2/2017 1:57	0.016	11/2/2017 2:43	0.028	11/2/2017 3:29	0.025
11/2/2017 1:58	0.017	11/2/2017 2:44	0.027	11/2/2017 3:30	0.025
11/2/2017 1:59	0.016	11/2/2017 2:45	0.028	11/2/2017 3:31	0.025
11/2/2017 2:00	0.017	11/2/2017 2:46	0.029	11/2/2017 3:32	0.025
11/2/2017 2:01	0.017	11/2/2017 2:47	0.03	11/2/2017 3:33	0.025
11/2/2017 2:02	0.017	11/2/2017 2:48	0.029	11/2/2017 3:34	0.024
11/2/2017 2:03	0.017	11/2/2017 2:49	0.029	11/2/2017 3:35	0.025
11/2/2017 2:04	0.017	11/2/2017 2:50	0.028	11/2/2017 3:36	0.024
11/2/2017 2:05	0.017	11/2/2017 2:51	0.028	11/2/2017 3:37	0.024
11/2/2017 2:06	0.018	11/2/2017 2:52	0.029	11/2/2017 3:38	0.026
11/2/2017 2:07	0.017	11/2/2017 2:53	0.028	11/2/2017 3:39	0.026
11/2/2017 2:08	0.017	11/2/2017 2:54	0.029	11/2/2017 3:40	0.025
11/2/2017 2:09	0.018	11/2/2017 2:55	0.028	11/2/2017 3:41	0.025
11/2/2017 2:10	0.02	11/2/2017 2:56	0.027	11/2/2017 3:42	0.026
11/2/2017 2:11	0.021	11/2/2017 2:57	0.027	11/2/2017 3:43	0.026
11/2/2017 2:12	0.022	11/2/2017 2:58	0.027	11/2/2017 3:44	0.026
11/2/2017 2:13	0.022	11/2/2017 2:59	0.026	11/2/2017 3:45	0.026
11/2/2017 2:14	0.022	11/2/2017 3:00	0.027	11/2/2017 3:46	0.026
11/2/2017 2:15	0.022	11/2/2017 3:01	0.027	11/2/2017 3:47	0.027
11/2/2017 2:16	0.02	11/2/2017 3:02	0.027	11/2/2017 3:48	0.026
11/2/2017 2:17	0.019	11/2/2017 3:03	0.027	11/2/2017 3:49	0.026
11/2/2017 2:18	0.02	11/2/2017 3:04	0.026	11/2/2017 3:50	0.026
11/2/2017 2:19	0.02	11/2/2017 3:05	0.026	11/2/2017 3:51	0.026
11/2/2017 2:20	0.019	11/2/2017 3:06	0.026	11/2/2017 3:52	0.027
11/2/2017 2:21	0.019	11/2/2017 3:07	0.025	11/2/2017 3:53	0.026
11/2/2017 2:22	0.02	11/2/2017 3:08	0.026	11/2/2017 3:54	0.026
11/2/2017 2:23	0.021	11/2/2017 3:09	0.025	11/2/2017 3:55	0.027
11/2/2017 2:24	0.02	11/2/2017 3:10	0.025	11/2/2017 3:56	0.027
11/2/2017 2:25	0.021	11/2/2017 3:11	0.024	11/2/2017 3:57	0.029
11/2/2017 2:26	0.021	11/2/2017 3:12	0.024	11/2/2017 3:58	0.03
11/2/2017 2:27	0.023	11/2/2017 3:13	0.026	11/2/2017 3:59	0.028
11/2/2017 2:28	0.023	11/2/2017 3:14	0.025	11/2/2017 4:00	0.03

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 4:01	0.032
11/2/2017 4:02	0.031
11/2/2017 4:03	0.03
11/2/2017 4:04	0.031
11/2/2017 4:05	0.03
11/2/2017 4:06	0.03
11/2/2017 4:07	0.029
11/2/2017 4:08	0.03
11/2/2017 4:09	0.031
11/2/2017 4:10	0.032
11/2/2017 4:11	0.032
11/2/2017 4:12	0.032
11/2/2017 4:13	0.031
11/2/2017 4:14	0.031

Location 4				Total Average (mg/m ³) = 0.018	
Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 12:17	0.039	11/2/2017 13:00	0.031	11/2/2017 13:43	0.024
11/2/2017 12:18	0.04	11/2/2017 13:01	0.032	11/2/2017 13:44	0.023
11/2/2017 12:19	0.04	11/2/2017 13:02	0.032	11/2/2017 13:45	0.022
11/2/2017 12:20	0.038	11/2/2017 13:03	0.032	11/2/2017 13:46	0.022
11/2/2017 12:21	0.039	11/2/2017 13:04	0.032	11/2/2017 13:47	0.022
11/2/2017 12:22	0.038	11/2/2017 13:05	0.032	11/2/2017 13:48	0.022
11/2/2017 12:23	0.037	11/2/2017 13:06	0.032	11/2/2017 13:49	0.021
11/2/2017 12:24	0.037	11/2/2017 13:07	0.032	11/2/2017 13:50	0.021
11/2/2017 12:25	0.036	11/2/2017 13:08	0.032	11/2/2017 13:51	0.021
11/2/2017 12:26	0.037	11/2/2017 13:09	0.032	11/2/2017 13:52	0.02
11/2/2017 12:27	0.037	11/2/2017 13:10	0.032	11/2/2017 13:53	0.021
11/2/2017 12:28	0.037	11/2/2017 13:11	0.034	11/2/2017 13:54	0.021
11/2/2017 12:29	0.036	11/2/2017 13:12	0.034	11/2/2017 13:55	0.021
11/2/2017 12:30	0.037	11/2/2017 13:13	0.034	11/2/2017 13:56	0.021
11/2/2017 12:31	0.036	11/2/2017 13:14	0.034	11/2/2017 13:57	0.02
11/2/2017 12:32	0.035	11/2/2017 13:15	0.034	11/2/2017 13:58	0.021
11/2/2017 12:33	0.034	11/2/2017 13:16	0.04	11/2/2017 13:59	0.021
11/2/2017 12:34	0.034	11/2/2017 13:17	0.027	11/2/2017 14:00	0.02
11/2/2017 12:35	0.034	11/2/2017 13:18	0.026	11/2/2017 14:01	0.02
11/2/2017 12:36	0.034	11/2/2017 13:19	0.027	11/2/2017 14:02	0.02
11/2/2017 12:37	0.035	11/2/2017 13:20	0.027	11/2/2017 14:03	0.02
11/2/2017 12:38	0.034	11/2/2017 13:21	0.026	11/2/2017 14:04	0.02
11/2/2017 12:39	0.033	11/2/2017 13:22	0.026	11/2/2017 14:05	0.02
11/2/2017 12:40	0.033	11/2/2017 13:23	0.026	11/2/2017 14:06	0.02
11/2/2017 12:41	0.033	11/2/2017 13:24	0.025	11/2/2017 14:07	0.02
11/2/2017 12:42	0.032	11/2/2017 13:25	0.026	11/2/2017 14:08	0.02
11/2/2017 12:43	0.032	11/2/2017 13:26	0.043	11/2/2017 14:09	0.021
11/2/2017 12:44	0.031	11/2/2017 13:27	0.025	11/2/2017 14:10	0.021
11/2/2017 12:45	0.031	11/2/2017 13:28	0.025	11/2/2017 14:11	0.021
11/2/2017 12:46	0.031	11/2/2017 13:29	0.025	11/2/2017 14:12	0.021
11/2/2017 12:47	0.031	11/2/2017 13:30	0.024	11/2/2017 14:13	0.021
11/2/2017 12:48	0.031	11/2/2017 13:31	0.025	11/2/2017 14:14	0.02
11/2/2017 12:49	0.031	11/2/2017 13:32	0.032	11/2/2017 14:15	0.02
11/2/2017 12:50	0.03	11/2/2017 13:33	0.024	11/2/2017 14:16	0.02
11/2/2017 12:51	0.03	11/2/2017 13:34	0.025	11/2/2017 14:17	0.02
11/2/2017 12:52	0.03	11/2/2017 13:35	0.024	11/2/2017 14:18	0.02
11/2/2017 12:53	0.03	11/2/2017 13:36	0.025	11/2/2017 14:19	0.02
11/2/2017 12:54	0.031	11/2/2017 13:37	0.025	11/2/2017 14:20	0.02
11/2/2017 12:55	0.031	11/2/2017 13:38	0.024	11/2/2017 14:21	0.02
11/2/2017 12:56	0.031	11/2/2017 13:39	0.024	11/2/2017 14:22	0.02
11/2/2017 12:57	0.032	11/2/2017 13:40	0.023	11/2/2017 14:23	0.02
11/2/2017 12:58	0.032	11/2/2017 13:41	0.024	11/2/2017 14:24	0.02
11/2/2017 12:59	0.032	11/2/2017 13:42	0.024	11/2/2017 14:25	0.02

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 14:26	0.02	11/2/2017 15:12	0.019	11/2/2017 15:58	0.017
11/2/2017 14:27	0.02	11/2/2017 15:13	0.019	11/2/2017 15:59	0.016
11/2/2017 14:28	0.02	11/2/2017 15:14	0.018	11/2/2017 16:00	0.016
11/2/2017 14:29	0.02	11/2/2017 15:15	0.018	11/2/2017 16:01	0.016
11/2/2017 14:30	0.02	11/2/2017 15:16	0.018	11/2/2017 16:02	0.017
11/2/2017 14:31	0.02	11/2/2017 15:17	0.019	11/2/2017 16:03	0.016
11/2/2017 14:32	0.02	11/2/2017 15:18	0.018	11/2/2017 16:04	0.016
11/2/2017 14:33	0.02	11/2/2017 15:19	0.018	11/2/2017 16:05	0.016
11/2/2017 14:34	0.02	11/2/2017 15:20	0.019	11/2/2017 16:06	0.016
11/2/2017 14:35	0.019	11/2/2017 15:21	0.018	11/2/2017 16:07	0.016
11/2/2017 14:36	0.019	11/2/2017 15:22	0.018	11/2/2017 16:08	0.016
11/2/2017 14:37	0.019	11/2/2017 15:23	0.018	11/2/2017 16:09	0.017
11/2/2017 14:38	0.019	11/2/2017 15:24	0.018	11/2/2017 16:10	0.016
11/2/2017 14:39	0.019	11/2/2017 15:25	0.018	11/2/2017 16:11	0.016
11/2/2017 14:40	0.019	11/2/2017 15:26	0.018	11/2/2017 16:12	0.016
11/2/2017 14:41	0.019	11/2/2017 15:27	0.018	11/2/2017 16:13	0.016
11/2/2017 14:42	0.019	11/2/2017 15:28	0.018	11/2/2017 16:14	0.016
11/2/2017 14:43	0.02	11/2/2017 15:29	0.018	11/2/2017 16:15	0.016
11/2/2017 14:44	0.019	11/2/2017 15:30	0.018	11/2/2017 16:16	0.016
11/2/2017 14:45	0.019	11/2/2017 15:31	0.018	11/2/2017 16:17	0.016
11/2/2017 14:46	0.019	11/2/2017 15:32	0.018	11/2/2017 16:18	0.016
11/2/2017 14:47	0.019	11/2/2017 15:33	0.018	11/2/2017 16:19	0.016
11/2/2017 14:48	0.019	11/2/2017 15:34	0.018	11/2/2017 16:20	0.015
11/2/2017 14:49	0.019	11/2/2017 15:35	0.018	11/2/2017 16:21	0.016
11/2/2017 14:50	0.019	11/2/2017 15:36	0.018	11/2/2017 16:22	0.016
11/2/2017 14:51	0.019	11/2/2017 15:37	0.018	11/2/2017 16:23	0.016
11/2/2017 14:52	0.019	11/2/2017 15:38	0.017	11/2/2017 16:24	0.016
11/2/2017 14:53	0.019	11/2/2017 15:39	0.017	11/2/2017 16:25	0.016
11/2/2017 14:54	0.019	11/2/2017 15:40	0.017	11/2/2017 16:26	0.016
11/2/2017 14:55	0.019	11/2/2017 15:41	0.017	11/2/2017 16:27	0.016
11/2/2017 14:56	0.019	11/2/2017 15:42	0.017	11/2/2017 16:28	0.016
11/2/2017 14:57	0.019	11/2/2017 15:43	0.017	11/2/2017 16:29	0.016
11/2/2017 14:58	0.019	11/2/2017 15:44	0.017	11/2/2017 16:30	0.016
11/2/2017 14:59	0.019	11/2/2017 15:45	0.017	11/2/2017 16:31	0.016
11/2/2017 15:00	0.019	11/2/2017 15:46	0.017	11/2/2017 16:32	0.015
11/2/2017 15:01	0.019	11/2/2017 15:47	0.017	11/2/2017 16:33	0.016
11/2/2017 15:02	0.019	11/2/2017 15:48	0.017	11/2/2017 16:34	0.016
11/2/2017 15:03	0.019	11/2/2017 15:49	0.017	11/2/2017 16:35	0.016
11/2/2017 15:04	0.018	11/2/2017 15:50	0.017	11/2/2017 16:36	0.016
11/2/2017 15:05	0.019	11/2/2017 15:51	0.017	11/2/2017 16:37	0.016
11/2/2017 15:06	0.019	11/2/2017 15:52	0.017	11/2/2017 16:38	0.016
11/2/2017 15:07	0.018	11/2/2017 15:53	0.016	11/2/2017 16:39	0.015
11/2/2017 15:08	0.019	11/2/2017 15:54	0.017	11/2/2017 16:40	0.016
11/2/2017 15:09	0.018	11/2/2017 15:55	0.017	11/2/2017 16:41	0.016
11/2/2017 15:10	0.019	11/2/2017 15:56	0.017	11/2/2017 16:42	0.016
11/2/2017 15:11	0.019	11/2/2017 15:57	0.017	11/2/2017 16:43	0.016

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 16:44	0.016	11/2/2017 17:30	0.017	11/2/2017 18:16	0.017
11/2/2017 16:45	0.016	11/2/2017 17:31	0.017	11/2/2017 18:17	0.017
11/2/2017 16:46	0.016	11/2/2017 17:32	0.016	11/2/2017 18:18	0.017
11/2/2017 16:47	0.016	11/2/2017 17:33	0.017	11/2/2017 18:19	0.017
11/2/2017 16:48	0.016	11/2/2017 17:34	0.017	11/2/2017 18:20	0.018
11/2/2017 16:49	0.016	11/2/2017 17:35	0.017	11/2/2017 18:21	0.017
11/2/2017 16:50	0.016	11/2/2017 17:36	0.016	11/2/2017 18:22	0.017
11/2/2017 16:51	0.016	11/2/2017 17:37	0.016	11/2/2017 18:23	0.017
11/2/2017 16:52	0.016	11/2/2017 17:38	0.016	11/2/2017 18:24	0.017
11/2/2017 16:53	0.016	11/2/2017 17:39	0.016	11/2/2017 18:25	0.018
11/2/2017 16:54	0.016	11/2/2017 17:40	0.016	11/2/2017 18:26	0.017
11/2/2017 16:55	0.016	11/2/2017 17:41	0.016	11/2/2017 18:27	0.017
11/2/2017 16:56	0.016	11/2/2017 17:42	0.016	11/2/2017 18:28	0.017
11/2/2017 16:57	0.016	11/2/2017 17:43	0.016	11/2/2017 18:29	0.017
11/2/2017 16:58	0.016	11/2/2017 17:44	0.016	11/2/2017 18:30	0.017
11/2/2017 16:59	0.016	11/2/2017 17:45	0.017	11/2/2017 18:31	0.018
11/2/2017 17:00	0.016	11/2/2017 17:46	0.016	11/2/2017 18:32	0.017
11/2/2017 17:01	0.016	11/2/2017 17:47	0.017	11/2/2017 18:33	0.017
11/2/2017 17:02	0.016	11/2/2017 17:48	0.016	11/2/2017 18:34	0.017
11/2/2017 17:03	0.017	11/2/2017 17:49	0.017	11/2/2017 18:35	0.017
11/2/2017 17:04	0.017	11/2/2017 17:50	0.017	11/2/2017 18:36	0.018
11/2/2017 17:05	0.016	11/2/2017 17:51	0.017	11/2/2017 18:37	0.017
11/2/2017 17:06	0.017	11/2/2017 17:52	0.017	11/2/2017 18:38	0.017
11/2/2017 17:07	0.016	11/2/2017 17:53	0.016	11/2/2017 18:39	0.017
11/2/2017 17:08	0.016	11/2/2017 17:54	0.017	11/2/2017 18:40	0.017
11/2/2017 17:09	0.016	11/2/2017 17:55	0.017	11/2/2017 18:41	0.018
11/2/2017 17:10	0.016	11/2/2017 17:56	0.017	11/2/2017 18:42	0.018
11/2/2017 17:11	0.016	11/2/2017 17:57	0.017	11/2/2017 18:43	0.018
11/2/2017 17:12	0.016	11/2/2017 17:58	0.017	11/2/2017 18:44	0.018
11/2/2017 17:13	0.017	11/2/2017 17:59	0.017	11/2/2017 18:45	0.018
11/2/2017 17:14	0.017	11/2/2017 18:00	0.017	11/2/2017 18:46	0.018
11/2/2017 17:15	0.017	11/2/2017 18:01	0.017	11/2/2017 18:47	0.017
11/2/2017 17:16	0.017	11/2/2017 18:02	0.017	11/2/2017 18:48	0.018
11/2/2017 17:17	0.016	11/2/2017 18:03	0.017	11/2/2017 18:49	0.018
11/2/2017 17:18	0.016	11/2/2017 18:04	0.017	11/2/2017 18:50	0.018
11/2/2017 17:19	0.017	11/2/2017 18:05	0.017	11/2/2017 18:51	0.018
11/2/2017 17:20	0.016	11/2/2017 18:06	0.017	11/2/2017 18:52	0.018
11/2/2017 17:21	0.016	11/2/2017 18:07	0.017	11/2/2017 18:53	0.019
11/2/2017 17:22	0.016	11/2/2017 18:08	0.017	11/2/2017 18:54	0.018
11/2/2017 17:23	0.017	11/2/2017 18:09	0.017	11/2/2017 18:55	0.019
11/2/2017 17:24	0.017	11/2/2017 18:10	0.017	11/2/2017 18:56	0.018
11/2/2017 17:25	0.016	11/2/2017 18:11	0.017	11/2/2017 18:57	0.019
11/2/2017 17:26	0.016	11/2/2017 18:12	0.018	11/2/2017 18:58	0.019
11/2/2017 17:27	0.017	11/2/2017 18:13	0.017	11/2/2017 18:59	0.019
11/2/2017 17:28	0.016	11/2/2017 18:14	0.018	11/2/2017 19:00	0.019
11/2/2017 17:29	0.016	11/2/2017 18:15	0.017	11/2/2017 19:01	0.019

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 19:02	0.019	11/2/2017 19:48	0.02	11/2/2017 20:34	0.02
11/2/2017 19:03	0.019	11/2/2017 19:49	0.021	11/2/2017 20:35	0.02
11/2/2017 19:04	0.019	11/2/2017 19:50	0.021	11/2/2017 20:36	0.02
11/2/2017 19:05	0.018	11/2/2017 19:51	0.02	11/2/2017 20:37	0.02
11/2/2017 19:06	0.019	11/2/2017 19:52	0.02	11/2/2017 20:38	0.02
11/2/2017 19:07	0.019	11/2/2017 19:53	0.021	11/2/2017 20:39	0.02
11/2/2017 19:08	0.019	11/2/2017 19:54	0.021	11/2/2017 20:40	0.02
11/2/2017 19:09	0.019	11/2/2017 19:55	0.021	11/2/2017 20:41	0.021
11/2/2017 19:10	0.019	11/2/2017 19:56	0.021	11/2/2017 20:42	0.02
11/2/2017 19:11	0.019	11/2/2017 19:57	0.021	11/2/2017 20:43	0.02
11/2/2017 19:12	0.019	11/2/2017 19:58	0.02	11/2/2017 20:44	0.02
11/2/2017 19:13	0.02	11/2/2017 19:59	0.02	11/2/2017 20:45	0.02
11/2/2017 19:14	0.019	11/2/2017 20:00	0.02	11/2/2017 20:46	0.02
11/2/2017 19:15	0.02	11/2/2017 20:01	0.02	11/2/2017 20:47	0.02
11/2/2017 19:16	0.02	11/2/2017 20:02	0.02	11/2/2017 20:48	0.02
11/2/2017 19:17	0.019	11/2/2017 20:03	0.02	11/2/2017 20:49	0.02
11/2/2017 19:18	0.019	11/2/2017 20:04	0.02	11/2/2017 20:50	0.02
11/2/2017 19:19	0.019	11/2/2017 20:05	0.02	11/2/2017 20:51	0.02
11/2/2017 19:20	0.019	11/2/2017 20:06	0.021	11/2/2017 20:52	0.02
11/2/2017 19:21	0.02	11/2/2017 20:07	0.02	11/2/2017 20:53	0.02
11/2/2017 19:22	0.02	11/2/2017 20:08	0.02	11/2/2017 20:54	0.02
11/2/2017 19:23	0.02	11/2/2017 20:09	0.02	11/2/2017 20:55	0.02
11/2/2017 19:24	0.019	11/2/2017 20:10	0.02	11/2/2017 20:56	0.02
11/2/2017 19:25	0.02	11/2/2017 20:11	0.02	11/2/2017 20:57	0.02
11/2/2017 19:26	0.02	11/2/2017 20:12	0.02	11/2/2017 20:58	0.02
11/2/2017 19:27	0.019	11/2/2017 20:13	0.02	11/2/2017 20:59	0.02
11/2/2017 19:28	0.02	11/2/2017 20:14	0.02	11/2/2017 21:00	0.02
11/2/2017 19:29	0.019	11/2/2017 20:15	0.02	11/2/2017 21:01	0.02
11/2/2017 19:30	0.02	11/2/2017 20:16	0.02	11/2/2017 21:02	0.02
11/2/2017 19:31	0.02	11/2/2017 20:17	0.02	11/2/2017 21:03	0.021
11/2/2017 19:32	0.02	11/2/2017 20:18	0.02	11/2/2017 21:04	0.02
11/2/2017 19:33	0.02	11/2/2017 20:19	0.02	11/2/2017 21:05	0.02
11/2/2017 19:34	0.02	11/2/2017 20:20	0.02	11/2/2017 21:06	0.02
11/2/2017 19:35	0.02	11/2/2017 20:21	0.02	11/2/2017 21:07	0.02
11/2/2017 19:36	0.02	11/2/2017 20:22	0.02	11/2/2017 21:08	0.02
11/2/2017 19:37	0.02	11/2/2017 20:23	0.02	11/2/2017 21:09	0.02
11/2/2017 19:38	0.02	11/2/2017 20:24	0.02	11/2/2017 21:10	0.02
11/2/2017 19:39	0.02	11/2/2017 20:25	0.02	11/2/2017 21:11	0.02
11/2/2017 19:40	0.02	11/2/2017 20:26	0.02	11/2/2017 21:12	0.02
11/2/2017 19:41	0.02	11/2/2017 20:27	0.02	11/2/2017 21:13	0.021
11/2/2017 19:42	0.02	11/2/2017 20:28	0.02	11/2/2017 21:14	0.02
11/2/2017 19:43	0.02	11/2/2017 20:29	0.02	11/2/2017 21:15	0.02
11/2/2017 19:44	0.02	11/2/2017 20:30	0.021	11/2/2017 21:16	0.02
11/2/2017 19:45	0.02	11/2/2017 20:31	0.02	11/2/2017 21:17	0.02
11/2/2017 19:46	0.02	11/2/2017 20:32	0.02	11/2/2017 21:18	0.02
11/2/2017 19:47	0.021	11/2/2017 20:33	0.02	11/2/2017 21:19	0.02

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 21:20	0.02	11/2/2017 22:06	0.017	11/2/2017 22:52	0.016
11/2/2017 21:21	0.019	11/2/2017 22:07	0.017	11/2/2017 22:53	0.016
11/2/2017 21:22	0.019	11/2/2017 22:08	0.017	11/2/2017 22:54	0.016
11/2/2017 21:23	0.019	11/2/2017 22:09	0.017	11/2/2017 22:55	0.016
11/2/2017 21:24	0.019	11/2/2017 22:10	0.017	11/2/2017 22:56	0.016
11/2/2017 21:25	0.019	11/2/2017 22:11	0.017	11/2/2017 22:57	0.016
11/2/2017 21:26	0.018	11/2/2017 22:12	0.017	11/2/2017 22:58	0.016
11/2/2017 21:27	0.019	11/2/2017 22:13	0.017	11/2/2017 22:59	0.016
11/2/2017 21:28	0.019	11/2/2017 22:14	0.017	11/2/2017 23:00	0.016
11/2/2017 21:29	0.019	11/2/2017 22:15	0.017	11/2/2017 23:01	0.016
11/2/2017 21:30	0.019	11/2/2017 22:16	0.017	11/2/2017 23:02	0.016
11/2/2017 21:31	0.018	11/2/2017 22:17	0.017	11/2/2017 23:03	0.016
11/2/2017 21:32	0.019	11/2/2017 22:18	0.017	11/2/2017 23:04	0.016
11/2/2017 21:33	0.019	11/2/2017 22:19	0.017	11/2/2017 23:05	0.015
11/2/2017 21:34	0.018	11/2/2017 22:20	0.017	11/2/2017 23:06	0.015
11/2/2017 21:35	0.018	11/2/2017 22:21	0.017	11/2/2017 23:07	0.015
11/2/2017 21:36	0.018	11/2/2017 22:22	0.017	11/2/2017 23:08	0.015
11/2/2017 21:37	0.018	11/2/2017 22:23	0.017	11/2/2017 23:09	0.015
11/2/2017 21:38	0.018	11/2/2017 22:24	0.017	11/2/2017 23:10	0.016
11/2/2017 21:39	0.018	11/2/2017 22:25	0.017	11/2/2017 23:11	0.016
11/2/2017 21:40	0.018	11/2/2017 22:26	0.017	11/2/2017 23:12	0.016
11/2/2017 21:41	0.018	11/2/2017 22:27	0.017	11/2/2017 23:13	0.016
11/2/2017 21:42	0.018	11/2/2017 22:28	0.017	11/2/2017 23:14	0.016
11/2/2017 21:43	0.018	11/2/2017 22:29	0.017	11/2/2017 23:15	0.016
11/2/2017 21:44	0.017	11/2/2017 22:30	0.017	11/2/2017 23:16	0.016
11/2/2017 21:45	0.018	11/2/2017 22:31	0.017	11/2/2017 23:17	0.016
11/2/2017 21:46	0.018	11/2/2017 22:32	0.017	11/2/2017 23:18	0.015
11/2/2017 21:47	0.018	11/2/2017 22:33	0.017	11/2/2017 23:19	0.016
11/2/2017 21:48	0.018	11/2/2017 22:34	0.017	11/2/2017 23:20	0.016
11/2/2017 21:49	0.018	11/2/2017 22:35	0.017	11/2/2017 23:21	0.016
11/2/2017 21:50	0.018	11/2/2017 22:36	0.016	11/2/2017 23:22	0.016
11/2/2017 21:51	0.018	11/2/2017 22:37	0.017	11/2/2017 23:23	0.016
11/2/2017 21:52	0.018	11/2/2017 22:38	0.016	11/2/2017 23:24	0.016
11/2/2017 21:53	0.018	11/2/2017 22:39	0.016	11/2/2017 23:25	0.016
11/2/2017 21:54	0.018	11/2/2017 22:40	0.016	11/2/2017 23:26	0.016
11/2/2017 21:55	0.018	11/2/2017 22:41	0.016	11/2/2017 23:27	0.015
11/2/2017 21:56	0.017	11/2/2017 22:42	0.016	11/2/2017 23:28	0.015
11/2/2017 21:57	0.018	11/2/2017 22:43	0.016	11/2/2017 23:29	0.016
11/2/2017 21:58	0.018	11/2/2017 22:44	0.016	11/2/2017 23:30	0.016
11/2/2017 21:59	0.018	11/2/2017 22:45	0.016	11/2/2017 23:31	0.016
11/2/2017 22:00	0.018	11/2/2017 22:46	0.016	11/2/2017 23:32	0.016
11/2/2017 22:01	0.018	11/2/2017 22:47	0.016	11/2/2017 23:33	0.015
11/2/2017 22:02	0.017	11/2/2017 22:48	0.016	11/2/2017 23:34	0.015
11/2/2017 22:03	0.017	11/2/2017 22:49	0.016	11/2/2017 23:35	0.015
11/2/2017 22:04	0.017	11/2/2017 22:50	0.016	11/2/2017 23:36	0.015
11/2/2017 22:05	0.017	11/2/2017 22:51	0.016	11/2/2017 23:37	0.015

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/2/2017 23:38	0.015	11/3/2017 0:24	0.013	11/3/2017 1:10	0.011
11/2/2017 23:39	0.015	11/3/2017 0:25	0.013	11/3/2017 1:11	0.011
11/2/2017 23:40	0.015	11/3/2017 0:26	0.013	11/3/2017 1:12	0.011
11/2/2017 23:41	0.015	11/3/2017 0:27	0.013	11/3/2017 1:13	0.011
11/2/2017 23:42	0.015	11/3/2017 0:28	0.013	11/3/2017 1:14	0.011
11/2/2017 23:43	0.015	11/3/2017 0:29	0.013	11/3/2017 1:15	0.011
11/2/2017 23:44	0.015	11/3/2017 0:30	0.013	11/3/2017 1:16	0.011
11/2/2017 23:45	0.015	11/3/2017 0:31	0.013	11/3/2017 1:17	0.011
11/2/2017 23:46	0.015	11/3/2017 0:32	0.013	11/3/2017 1:18	0.011
11/2/2017 23:47	0.015	11/3/2017 0:33	0.013	11/3/2017 1:19	0.011
11/2/2017 23:48	0.015	11/3/2017 0:34	0.013	11/3/2017 1:20	0.011
11/2/2017 23:49	0.015	11/3/2017 0:35	0.013	11/3/2017 1:21	0.011
11/2/2017 23:50	0.015	11/3/2017 0:36	0.013	11/3/2017 1:22	0.011
11/2/2017 23:51	0.015	11/3/2017 0:37	0.013	11/3/2017 1:23	0.011
11/2/2017 23:52	0.015	11/3/2017 0:38	0.013	11/3/2017 1:24	0.011
11/2/2017 23:53	0.014	11/3/2017 0:39	0.013	11/3/2017 1:25	0.011
11/2/2017 23:54	0.014	11/3/2017 0:40	0.013	11/3/2017 1:26	0.011
11/2/2017 23:55	0.014	11/3/2017 0:41	0.013	11/3/2017 1:27	0.01
11/2/2017 23:56	0.015	11/3/2017 0:42	0.013	11/3/2017 1:28	0.01
11/2/2017 23:57	0.015	11/3/2017 0:43	0.013	11/3/2017 1:29	0.011
11/2/2017 23:58	0.015	11/3/2017 0:44	0.012	11/3/2017 1:30	0.01
11/2/2017 23:59	0.014	11/3/2017 0:45	0.012	11/3/2017 1:31	0.01
11/3/2017 0:00	0.014	11/3/2017 0:46	0.013	11/3/2017 1:32	0.01
11/3/2017 0:01	0.014	11/3/2017 0:47	0.013	11/3/2017 1:33	0.01
11/3/2017 0:02	0.014	11/3/2017 0:48	0.013	11/3/2017 1:34	0.01
11/3/2017 0:03	0.014	11/3/2017 0:49	0.012	11/3/2017 1:35	0.011
11/3/2017 0:04	0.014	11/3/2017 0:50	0.012	11/3/2017 1:36	0.01
11/3/2017 0:05	0.014	11/3/2017 0:51	0.012	11/3/2017 1:37	0.01
11/3/2017 0:06	0.014	11/3/2017 0:52	0.013	11/3/2017 1:38	0.01
11/3/2017 0:07	0.013	11/3/2017 0:53	0.012	11/3/2017 1:39	0.01
11/3/2017 0:08	0.013	11/3/2017 0:54	0.012	11/3/2017 1:40	0.01
11/3/2017 0:09	0.014	11/3/2017 0:55	0.012	11/3/2017 1:41	0.01
11/3/2017 0:10	0.014	11/3/2017 0:56	0.012	11/3/2017 1:42	0.01
11/3/2017 0:11	0.013	11/3/2017 0:57	0.012	11/3/2017 1:43	0.011
11/3/2017 0:12	0.014	11/3/2017 0:58	0.012	11/3/2017 1:44	0.01
11/3/2017 0:13	0.013	11/3/2017 0:59	0.013	11/3/2017 1:45	0.01
11/3/2017 0:14	0.013	11/3/2017 1:00	0.012	11/3/2017 1:46	0.01
11/3/2017 0:15	0.013	11/3/2017 1:01	0.012	11/3/2017 1:47	0.01
11/3/2017 0:16	0.013	11/3/2017 1:02	0.012	11/3/2017 1:48	0.011
11/3/2017 0:17	0.013	11/3/2017 1:03	0.012	11/3/2017 1:49	0.011
11/3/2017 0:18	0.013	11/3/2017 1:04	0.011	11/3/2017 1:50	0.01
11/3/2017 0:19	0.014	11/3/2017 1:05	0.012	11/3/2017 1:51	0.01
11/3/2017 0:20	0.013	11/3/2017 1:06	0.012	11/3/2017 1:52	0.01
11/3/2017 0:21	0.013	11/3/2017 1:07	0.011	11/3/2017 1:53	0.01
11/3/2017 0:22	0.013	11/3/2017 1:08	0.011	11/3/2017 1:54	0.01
11/3/2017 0:23	0.013	11/3/2017 1:09	0.012	11/3/2017 1:55	0.01

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/3/2017 1:56	0.01	11/3/2017 2:42	0.01
11/3/2017 1:57	0.01	11/3/2017 2:43	0.01
11/3/2017 1:58	0.01	11/3/2017 2:44	0.01
11/3/2017 1:59	0.01	11/3/2017 2:45	0.01
11/3/2017 2:00	0.01	11/3/2017 2:46	0.01
11/3/2017 2:01	0.01	11/3/2017 2:47	0.01
11/3/2017 2:02	0.01	11/3/2017 2:48	0.01
11/3/2017 2:03	0.01	11/3/2017 2:49	0.01
11/3/2017 2:04	0.01	11/3/2017 2:50	0.01
11/3/2017 2:05	0.01	11/3/2017 2:51	0.01
11/3/2017 2:06	0.01	11/3/2017 2:52	0.01
11/3/2017 2:07	0.01	11/3/2017 2:53	0.01
11/3/2017 2:08	0.01	11/3/2017 2:54	0.01
11/3/2017 2:09	0.011	11/3/2017 2:55	0.01
11/3/2017 2:10	0.01	11/3/2017 2:56	0.01
11/3/2017 2:11	0.01	11/3/2017 2:57	0.01
11/3/2017 2:12	0.01	11/3/2017 2:58	0.01
11/3/2017 2:13	0.01	11/3/2017 2:59	0.011
11/3/2017 2:14	0.01	11/3/2017 3:00	0.01
11/3/2017 2:15	0.01	11/3/2017 3:01	0.01
11/3/2017 2:16	0.01	11/3/2017 3:02	0.01
11/3/2017 2:17	0.01	11/3/2017 3:03	0
11/3/2017 2:18	0.01	11/3/2017 3:04	0.023
11/3/2017 2:19	0.01	11/3/2017 3:05	0.017
11/3/2017 2:20	0.01	11/3/2017 3:06	0.009
11/3/2017 2:21	0.01	11/3/2017 3:07	0.004
11/3/2017 2:22	0.01	11/3/2017 3:08	0.005
11/3/2017 2:23	0.01	11/3/2017 3:09	0.011
11/3/2017 2:24	0.01	11/3/2017 3:10	0.011
11/3/2017 2:25	0.01	11/3/2017 3:11	0.012
11/3/2017 2:26	0.01	11/3/2017 3:12	0.007
11/3/2017 2:27	0.01	11/3/2017 3:13	0.004
11/3/2017 2:28	0.01		
11/3/2017 2:29	0.01		
11/3/2017 2:30	0.01		
11/3/2017 2:31	0.01		
11/3/2017 2:32	0.01		
11/3/2017 2:33	0.01		
11/3/2017 2:34	0.01		
11/3/2017 2:35	0.01		
11/3/2017 2:36	0.012		
11/3/2017 2:37	0.01		
11/3/2017 2:38	0.01		
11/3/2017 2:39	0.01		
11/3/2017 2:40	0.01		
11/3/2017 2:41	0.01		

Location 5				Total Average (mg/m ³) = 0.022	
Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/3/2017 12:19	0.043	11/3/2017 13:02	0.021	11/3/2017 13:45	0.02
11/3/2017 12:20	0.026	11/3/2017 13:03	0.02	11/3/2017 13:46	0.02
11/3/2017 12:21	0.024	11/3/2017 13:04	0.021	11/3/2017 13:47	0.02
11/3/2017 12:22	0.024	11/3/2017 13:05	0.02	11/3/2017 13:48	0.019
11/3/2017 12:23	0.025	11/3/2017 13:06	0.021	11/3/2017 13:49	0.019
11/3/2017 12:24	0.024	11/3/2017 13:07	0.021	11/3/2017 13:50	0.02
11/3/2017 12:25	0.025	11/3/2017 13:08	0.02	11/3/2017 13:51	0.02
11/3/2017 12:26	0.025	11/3/2017 13:09	0.02	11/3/2017 13:52	0.02
11/3/2017 12:27	0.025	11/3/2017 13:10	0.021	11/3/2017 13:53	0.02
11/3/2017 12:28	0.025	11/3/2017 13:11	0.021	11/3/2017 13:54	0.02
11/3/2017 12:29	0.024	11/3/2017 13:12	0.02	11/3/2017 13:55	0.02
11/3/2017 12:30	0.024	11/3/2017 13:13	0.02	11/3/2017 13:56	0.02
11/3/2017 12:31	0.024	11/3/2017 13:14	0.021	11/3/2017 13:57	0.019
11/3/2017 12:32	0.025	11/3/2017 13:15	0.021	11/3/2017 13:58	0.02
11/3/2017 12:33	0.024	11/3/2017 13:16	0.021	11/3/2017 13:59	0.02
11/3/2017 12:34	0.024	11/3/2017 13:17	0.021	11/3/2017 14:00	0.019
11/3/2017 12:35	0.023	11/3/2017 13:18	0.021	11/3/2017 14:01	0.019
11/3/2017 12:36	0.023	11/3/2017 13:19	0.021	11/3/2017 14:02	0.019
11/3/2017 12:37	0.023	11/3/2017 13:20	0.021		
11/3/2017 12:38	0.023	11/3/2017 13:21	0.021		
11/3/2017 12:39	0.023	11/3/2017 13:22	0.021		
11/3/2017 12:40	0.023	11/3/2017 13:23	0.02		
11/3/2017 12:41	0.023	11/3/2017 13:24	0.02		
11/3/2017 12:42	0.023	11/3/2017 13:25	0.02		
11/3/2017 12:43	0.023	11/3/2017 13:26	0.021		
11/3/2017 12:44	0.023	11/3/2017 13:27	0.02		
11/3/2017 12:45	0.023	11/3/2017 13:28	0.02		
11/3/2017 12:46	0.022	11/3/2017 13:29	0.02		
11/3/2017 12:47	0.022	11/3/2017 13:30	0.021		
11/3/2017 12:48	0.022	11/3/2017 13:31	0.02		
11/3/2017 12:49	0.022	11/3/2017 13:32	0.02		
11/3/2017 12:50	0.022	11/3/2017 13:33	0.02		
11/3/2017 12:51	0.022	11/3/2017 13:34	0.02		
11/3/2017 12:52	0.021	11/3/2017 13:35	0.02		
11/3/2017 12:53	0.021	11/3/2017 13:36	0.02		
11/3/2017 12:54	0.022	11/3/2017 13:37	0.02		
11/3/2017 12:55	0.021	11/3/2017 13:38	0.02		
11/3/2017 12:56	0.022	11/3/2017 13:39	0.02		
11/3/2017 12:57	0.021	11/3/2017 13:40	0.02		
11/3/2017 12:58	0.021	11/3/2017 13:41	0.02		
11/3/2017 12:59	0.022	11/3/2017 13:42	0.02		
11/3/2017 13:00	0.021	11/3/2017 13:43	0.019		
11/3/2017 13:01	0.021	11/3/2017 13:44	0.02		

Location 6				Total Average (mg/m ³) = 0.013		
Device	DustTrak RS232(C)					
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	
11/6/2017 10:49	0.021	11/6/2017 11:32	0.016	11/6/2017 12:36	0.012	
11/6/2017 10:50	0.021	11/6/2017 11:33	0.015	11/6/2017 12:37	0.012	
11/6/2017 10:51	0.02	11/6/2017 11:34	0.015	11/6/2017 12:38	0.013	
11/6/2017 10:52	0.018	11/6/2017 11:35	0.015	11/6/2017 12:39	0.013	
11/6/2017 10:53	0.018	11/6/2017 11:36	0.015	11/6/2017 12:40	0.012	
11/6/2017 10:54	0.018	11/6/2017 11:37	0.015	11/6/2017 12:41	0.012	
11/6/2017 10:55	0.018	11/6/2017 11:38	0.014	11/6/2017 12:42	0.012	
11/6/2017 10:56	0.018	11/6/2017 11:39	0.015	11/6/2017 12:43	0.012	
11/6/2017 10:57	0.018	11/6/2017 11:40	0.014	11/6/2017 12:44	0.012	
11/6/2017 10:58	0.018	11/6/2017 11:41	0.015	11/6/2017 12:45	0.012	
11/6/2017 10:59	0.018	11/6/2017 11:42	0.014	11/6/2017 12:46	0.013	
11/6/2017 11:00	0.017	11/6/2017 12:04	0.014	11/6/2017 12:47	0.012	
11/6/2017 11:01	0.018	11/6/2017 12:05	0.014	11/6/2017 12:48	0.012	
11/6/2017 11:02	0.017	11/6/2017 12:06	0.014	11/6/2017 12:49	0.012	
11/6/2017 11:03	0.017	11/6/2017 12:07	0.014	11/6/2017 12:50	0.012	
11/6/2017 11:04	0.017	11/6/2017 12:08	0.014	11/6/2017 12:51	0.012	
11/6/2017 11:05	0.017	11/6/2017 12:09	0.014	11/6/2017 12:52	0.012	
11/6/2017 11:06	0.017	11/6/2017 12:10	0.013	11/6/2017 13:23	0.012	
11/6/2017 11:07	0.017	11/6/2017 12:11	0.013	11/6/2017 13:24	0.013	
11/6/2017 11:08	0.017	11/6/2017 12:12	0.013	11/6/2017 13:25	0.013	
11/6/2017 11:09	0.017	11/6/2017 12:13	0.013	11/6/2017 13:26	0.013	
11/6/2017 11:10	0.017	11/6/2017 12:14	0.013	11/6/2017 13:27	0.013	
11/6/2017 11:11	0.016	11/6/2017 12:15	0.013	11/6/2017 13:28	0.013	
11/6/2017 11:12	0.016	11/6/2017 12:16	0.013	11/6/2017 13:29	0.012	
11/6/2017 11:13	0.016	11/6/2017 12:17	0.013	11/6/2017 13:30	0.012	
11/6/2017 11:14	0.016	11/6/2017 12:18	0.013	11/6/2017 13:34	0.011	
11/6/2017 11:15	0.016	11/6/2017 12:19	0.013	11/6/2017 13:35	0.012	
11/6/2017 11:16	0.016	11/6/2017 12:20	0.013	11/6/2017 13:36	0.012	
11/6/2017 11:17	0.016	11/6/2017 12:21	0.013	11/6/2017 13:37	0.012	
11/6/2017 11:18	0.016	11/6/2017 12:22	0.013	11/6/2017 13:38	0.012	
11/6/2017 11:19	0.016	11/6/2017 12:23	0.013	11/6/2017 13:39	0.011	
11/6/2017 11:20	0.016	11/6/2017 12:24	0.013	11/6/2017 13:40	0.012	
11/6/2017 11:21	0.016	11/6/2017 12:25	0.014	11/6/2017 13:45	0.011	
11/6/2017 11:22	0.016	11/6/2017 12:26	0.013	11/6/2017 13:46	0.012	
11/6/2017 11:23	0.016	11/6/2017 12:27	0.013	11/6/2017 13:47	0.011	
11/6/2017 11:24	0.016	11/6/2017 12:28	0.013	11/6/2017 13:48	0.011	
11/6/2017 11:25	0.016	11/6/2017 12:29	0.013	11/6/2017 13:49	0.011	
11/6/2017 11:26	0.016	11/6/2017 12:30	0.013	11/6/2017 13:50	0.011	
11/6/2017 11:27	0.016	11/6/2017 12:31	0.013	11/6/2017 13:51	0.011	
11/6/2017 11:28	0.016	11/6/2017 12:32	0.013	11/6/2017 13:52	0.011	
11/6/2017 11:29	0.016	11/6/2017 12:33	0.012	11/6/2017 13:53	0.011	
11/6/2017 11:30	0.016	11/6/2017 12:34	0.012	11/6/2017 13:54	0.01	
11/6/2017 11:31	0.015	11/6/2017 12:35	0.012	11/6/2017 13:55	0.009	

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/6/2017 13:56	0.009
11/6/2017 13:57	0.007
11/6/2017 13:58	0.005
11/6/2017 13:59	0.005
11/6/2017 14:00	0.004
11/6/2017 14:01	0.004
11/6/2017 14:02	0.004
11/6/2017 14:03	0.003
11/6/2017 14:04	0.003
11/6/2017 14:05	0.003

Location 7				Total Average (mg/m ³) = 0.009		
Device	DustTrak RS232(C)					
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	
11/6/2017 14:06	0.002	11/6/2017 14:49	0.002	11/6/2017 15:32	0.001	
11/6/2017 14:07	0.002	11/6/2017 14:50	0.001	11/6/2017 15:33	0.001	
11/6/2017 14:08	0.002	11/6/2017 14:51	0.001	11/6/2017 15:34	0.001	
11/6/2017 14:09	0.002	11/6/2017 14:52	0.001	11/6/2017 15:35	0.001	
11/6/2017 14:10	0.002	11/6/2017 14:53	0.002	11/6/2017 15:36	0.002	
11/6/2017 14:11	0.002	11/6/2017 14:54	0.001	11/6/2017 15:37	0.002	
11/6/2017 14:12	0.002	11/6/2017 14:55	0.001	11/6/2017 15:38	0.002	
11/6/2017 14:13	0.002	11/6/2017 14:56	0.001	11/6/2017 15:39	0.002	
11/6/2017 14:14	0.002	11/6/2017 14:57	0.001	11/6/2017 15:40	0.002	
11/6/2017 14:15	0.002	11/6/2017 14:58	0.001	11/6/2017 15:41	0.001	
11/6/2017 14:16	0.002	11/6/2017 14:59	0.002	11/6/2017 15:42	0.001	
11/6/2017 14:17	0.002	11/6/2017 15:00	0.002	11/6/2017 15:43	0.002	
11/6/2017 14:18	0.002	11/6/2017 15:01	0.002	11/6/2017 15:44	0.002	
11/6/2017 14:19	0.002	11/6/2017 15:02	0.002	11/6/2017 15:45	0.002	
11/6/2017 14:20	0.001	11/6/2017 15:03	0.002	11/6/2017 15:46	0.002	
11/6/2017 14:21	0.001	11/6/2017 15:04	0.001	11/6/2017 15:47	0.002	
11/6/2017 14:22	0.001	11/6/2017 15:05	0.001	11/6/2017 15:48	0.002	
11/6/2017 14:23	0.001	11/6/2017 15:06	0.002	11/6/2017 15:49	0.002	
11/6/2017 14:24	0.002	11/6/2017 15:07	0.001	11/6/2017 15:50	0.002	
11/6/2017 14:25	0.002	11/6/2017 15:08	0.001	11/6/2017 15:51	0.002	
11/6/2017 14:26	0.002	11/6/2017 15:09	0.002	11/6/2017 15:52	0.002	
11/6/2017 14:27	0.001	11/6/2017 15:10	0.002	11/6/2017 15:53	0.002	
11/6/2017 14:28	0.001	11/6/2017 15:11	0.002	11/6/2017 15:54	0.002	
11/6/2017 14:29	0.001	11/6/2017 15:12	0.001	11/6/2017 15:55	0.002	
11/6/2017 14:30	0.001	11/6/2017 15:13	0.001	11/6/2017 15:56	0.002	
11/6/2017 14:31	0.001	11/6/2017 15:14	0.002	11/6/2017 15:57	0.002	
11/6/2017 14:32	0.001	11/6/2017 15:15	0.001	11/6/2017 15:58	0.002	
11/6/2017 14:33	0.001	11/6/2017 15:16	0.001	11/6/2017 15:59	0.002	
11/6/2017 14:34	0.001	11/6/2017 15:17	0.001	11/6/2017 16:00	0.002	
11/6/2017 14:35	0.001	11/6/2017 15:18	0.001	11/6/2017 16:01	0.002	
11/6/2017 14:36	0.001	11/6/2017 15:19	0.001	11/6/2017 16:02	0.002	
11/6/2017 14:37	0.001	11/6/2017 15:20	0.001	11/6/2017 16:03	0.002	
11/6/2017 14:38	0.001	11/6/2017 15:21	0.001	11/6/2017 16:04	0.002	
11/6/2017 14:39	0.001	11/6/2017 15:22	0.001	11/6/2017 16:05	0.002	
11/6/2017 14:40	0.001	11/6/2017 15:23	0.001	11/6/2017 16:06	0.002	
11/6/2017 14:41	0.001	11/6/2017 15:24	0.001	11/6/2017 16:07	0.002	
11/6/2017 14:42	0.001	11/6/2017 15:25	0.001	11/6/2017 16:08	0.002	
11/6/2017 14:43	0.001	11/6/2017 15:26	0.001	11/6/2017 16:09	0.002	
11/6/2017 14:44	0.001	11/6/2017 15:27	0.001	11/6/2017 16:10	0.002	
11/6/2017 14:45	0.001	11/6/2017 15:28	0.001	11/6/2017 16:11	0.002	
11/6/2017 14:46	0.001	11/6/2017 15:29	0.001	11/6/2017 16:12	0.002	
11/6/2017 14:47	0.001	11/6/2017 15:30	0.001	11/6/2017 16:13	0.002	
11/6/2017 14:48	0.001	11/6/2017 15:31	0.001	11/6/2017 16:14	0.002	

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/6/2017 16:15	0.002	11/6/2017 17:03	0.004	11/6/2017 17:49	0.007
11/6/2017 16:16	0.002	11/6/2017 17:04	0.004	11/6/2017 17:50	0.007
11/6/2017 16:17	0.002	11/6/2017 17:05	0.004	11/6/2017 17:51	0.007
11/6/2017 16:18	0.002	11/6/2017 17:06	0.004	11/6/2017 17:52	0.007
11/6/2017 16:19	0.002	11/6/2017 17:07	0.004	11/6/2017 17:53	0.007
11/6/2017 16:20	0.002	11/6/2017 17:08	0.004	11/6/2017 17:54	0.007
11/6/2017 16:21	0.002	11/6/2017 17:09	0.008	11/6/2017 17:55	0.007
11/6/2017 16:22	0.002	11/6/2017 17:10	0.005	11/6/2017 17:56	0.007
11/6/2017 16:23	0.002	11/6/2017 17:11	0.005	11/6/2017 17:57	0.007
11/6/2017 16:24	0.002	11/6/2017 17:12	0.005	11/6/2017 17:58	0.007
11/6/2017 16:25	0.002	11/6/2017 17:13	0.005	11/6/2017 17:59	0.007
11/6/2017 16:26	0.002	11/6/2017 17:14	0.005	11/6/2017 18:00	0.007
11/6/2017 16:27	0.002	11/6/2017 17:15	0.005	11/6/2017 18:01	0.007
11/6/2017 16:28	0.002	11/6/2017 17:16	0.005	11/6/2017 18:02	0.007
11/6/2017 16:29	0.002	11/6/2017 17:17	0.005	11/6/2017 18:03	0.007
11/6/2017 16:30	0.002	11/6/2017 17:18	0.005	11/6/2017 18:04	0.007
11/6/2017 16:31	0.002	11/6/2017 17:19	0.005	11/6/2017 18:05	0.007
11/6/2017 16:32	0.002	11/6/2017 17:20	0.005	11/6/2017 18:06	0.007
11/6/2017 16:33	0.002	11/6/2017 17:21	0.005	11/6/2017 18:07	0.008
11/6/2017 16:34	0.002	11/6/2017 17:22	0.005	11/6/2017 18:08	0.007
11/6/2017 16:35	0.002	11/6/2017 17:23	0.005	11/6/2017 18:09	0.007
11/6/2017 16:36	0.003	11/6/2017 17:24	0.005	11/6/2017 18:10	0.007
11/6/2017 16:37	0.003	11/6/2017 17:25	0.005	11/6/2017 18:11	0.007
11/6/2017 16:38	0.003	11/6/2017 17:26	0.005	11/6/2017 18:12	0.007
11/6/2017 16:39	0.003	11/6/2017 17:27	0.005	11/6/2017 18:13	0.008
11/6/2017 16:40	0.003	11/6/2017 17:28	0.006	11/6/2017 18:14	0.008
11/6/2017 16:41	0.003	11/6/2017 17:29	0.006	11/6/2017 18:15	0.008
11/6/2017 16:42	0.003	11/6/2017 17:30	0.006	11/6/2017 18:16	0.008
11/6/2017 16:43	0.003	11/6/2017 17:31	0.006	11/6/2017 18:17	0.008
11/6/2017 16:44	0.003	11/6/2017 17:32	0.006	11/6/2017 18:18	0.008
11/6/2017 16:45	0.003	11/6/2017 17:33	0.006	11/6/2017 18:19	0.008
11/6/2017 16:46	0.003	11/6/2017 17:34	0.006	11/6/2017 18:20	0.008
11/6/2017 16:47	0.003	11/6/2017 17:35	0.006	11/6/2017 18:21	0.008
11/6/2017 16:48	0.003	11/6/2017 17:36	0.006	11/6/2017 18:22	0.008
11/6/2017 16:49	0.003	11/6/2017 17:37	0.006	11/6/2017 18:23	0.008
11/6/2017 16:50	0.004	11/6/2017 17:38	0.006	11/6/2017 18:24	0.008
11/6/2017 16:51	0.004	11/6/2017 17:39	0.006	11/6/2017 18:25	0.008
11/6/2017 16:54	0.004	11/6/2017 17:40	0.007	11/6/2017 18:26	0.008
11/6/2017 16:55	0.004	11/6/2017 17:41	0.007	11/6/2017 18:27	0.008
11/6/2017 16:56	0.004	11/6/2017 17:42	0.006	11/6/2017 18:28	0.008
11/6/2017 16:57	0.004	11/6/2017 17:43	0.007	11/6/2017 18:29	0.008
11/6/2017 16:58	0.004	11/6/2017 17:44	0.007	11/6/2017 18:30	0.008
11/6/2017 16:59	0.004	11/6/2017 17:45	0.007	11/6/2017 18:31	0.008
11/6/2017 17:00	0.004	11/6/2017 17:46	0.007	11/6/2017 18:32	0.008
11/6/2017 17:01	0.004	11/6/2017 17:47	0.007	11/6/2017 18:33	0.008
11/6/2017 17:02	0.004	11/6/2017 17:48	0.007	11/6/2017 18:34	0.008

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/6/2017 18:35	0.008	11/6/2017 19:21	0.009	11/6/2017 20:07	0.009
11/6/2017 18:36	0.008	11/6/2017 19:22	0.009	11/6/2017 20:08	0.01
11/6/2017 18:37	0.008	11/6/2017 19:23	0.009	11/6/2017 20:09	0.009
11/6/2017 18:38	0.008	11/6/2017 19:24	0.009	11/6/2017 20:10	0.01
11/6/2017 18:39	0.009	11/6/2017 19:25	0.009	11/6/2017 20:11	0.01
11/6/2017 18:40	0.008	11/6/2017 19:26	0.009	11/6/2017 20:12	0.01
11/6/2017 18:41	0.008	11/6/2017 19:27	0.009	11/6/2017 20:13	0.009
11/6/2017 18:42	0.008	11/6/2017 19:28	0.009	11/6/2017 20:14	0.01
11/6/2017 18:43	0.008	11/6/2017 19:29	0.009	11/6/2017 20:15	0.01
11/6/2017 18:44	0.008	11/6/2017 19:30	0.009	11/6/2017 20:16	0.01
11/6/2017 18:45	0.008	11/6/2017 19:31	0.009	11/6/2017 20:17	0.01
11/6/2017 18:46	0.008	11/6/2017 19:32	0.009	11/6/2017 20:18	0.01
11/6/2017 18:47	0.008	11/6/2017 19:33	0.009	11/6/2017 20:19	0.01
11/6/2017 18:48	0.008	11/6/2017 19:34	0.009	11/6/2017 20:20	0.01
11/6/2017 18:49	0.008	11/6/2017 19:35	0.009	11/6/2017 20:21	0.01
11/6/2017 18:50	0.008	11/6/2017 19:36	0.009	11/6/2017 20:22	0.01
11/6/2017 18:51	0.008	11/6/2017 19:37	0.009	11/6/2017 20:23	0.009
11/6/2017 18:52	0.008	11/6/2017 19:38	0.009	11/6/2017 20:24	0.01
11/6/2017 18:53	0.008	11/6/2017 19:39	0.009	11/6/2017 20:25	0.01
11/6/2017 18:54	0.008	11/6/2017 19:40	0.009	11/6/2017 20:26	0.01
11/6/2017 18:55	0.008	11/6/2017 19:41	0.009	11/6/2017 20:27	0.01
11/6/2017 18:56	0.008	11/6/2017 19:42	0.009	11/6/2017 20:28	0.01
11/6/2017 18:57	0.008	11/6/2017 19:43	0.009	11/6/2017 20:29	0.01
11/6/2017 18:58	0.008	11/6/2017 19:44	0.009	11/6/2017 20:30	0.01
11/6/2017 18:59	0.008	11/6/2017 19:45	0.009	11/6/2017 20:31	0.01
11/6/2017 19:00	0.008	11/6/2017 19:46	0.009	11/6/2017 20:32	0.01
11/6/2017 19:01	0.009	11/6/2017 19:47	0.009	11/6/2017 20:33	0.01
11/6/2017 19:02	0.009	11/6/2017 19:48	0.009	11/6/2017 20:34	0.01
11/6/2017 19:03	0.009	11/6/2017 19:49	0.009	11/6/2017 20:35	0.01
11/6/2017 19:04	0.009	11/6/2017 19:50	0.009	11/6/2017 20:36	0.01
11/6/2017 19:05	0.009	11/6/2017 19:51	0.009	11/6/2017 20:37	0.01
11/6/2017 19:06	0.009	11/6/2017 19:52	0.01	11/6/2017 20:38	0.01
11/6/2017 19:07	0.008	11/6/2017 19:53	0.01	11/6/2017 20:39	0.01
11/6/2017 19:08	0.009	11/6/2017 19:54	0.009	11/6/2017 20:40	0.01
11/6/2017 19:09	0.009	11/6/2017 19:55	0.009	11/6/2017 20:41	0.01
11/6/2017 19:10	0.009	11/6/2017 19:56	0.01	11/6/2017 20:42	0.01
11/6/2017 19:11	0.009	11/6/2017 19:57	0.009	11/6/2017 20:43	0.01
11/6/2017 19:12	0.009	11/6/2017 19:58	0.009	11/6/2017 20:44	0.01
11/6/2017 19:13	0.008	11/6/2017 19:59	0.009	11/6/2017 20:45	0.01
11/6/2017 19:14	0.009	11/6/2017 20:00	0.009	11/6/2017 20:46	0.01
11/6/2017 19:15	0.009	11/6/2017 20:01	0.009	11/6/2017 20:47	0.01
11/6/2017 19:16	0.009	11/6/2017 20:02	0.009	11/6/2017 20:48	0.01
11/6/2017 19:17	0.009	11/6/2017 20:03	0.009	11/6/2017 20:49	0.01
11/6/2017 19:18	0.009	11/6/2017 20:04	0.01	11/6/2017 20:50	0.01
11/6/2017 19:19	0.008	11/6/2017 20:05	0.01	11/6/2017 20:51	0.01
11/6/2017 19:20	0.009	11/6/2017 20:06	0.009	11/6/2017 20:52	0.01

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/6/2017 20:53	0.01	11/6/2017 21:39	0.011	11/6/2017 22:25	0.012
11/6/2017 20:54	0.01	11/6/2017 21:40	0.011	11/6/2017 22:26	0.012
11/6/2017 20:55	0.01	11/6/2017 21:41	0.011	11/6/2017 22:27	0.012
11/6/2017 20:56	0.01	11/6/2017 21:42	0.011	11/6/2017 22:28	0.012
11/6/2017 20:57	0.01	11/6/2017 21:43	0.011	11/6/2017 22:29	0.012
11/6/2017 20:58	0.01	11/6/2017 21:44	0.011	11/6/2017 22:30	0.012
11/6/2017 20:59	0.01	11/6/2017 21:45	0.011	11/6/2017 22:31	0.012
11/6/2017 21:00	0.01	11/6/2017 21:46	0.011	11/6/2017 22:32	0.012
11/6/2017 21:01	0.01	11/6/2017 21:47	0.011	11/6/2017 22:33	0.012
11/6/2017 21:02	0.01	11/6/2017 21:48	0.011	11/6/2017 22:34	0.012
11/6/2017 21:03	0.01	11/6/2017 21:49	0.011	11/6/2017 22:35	0.012
11/6/2017 21:04	0.01	11/6/2017 21:50	0.011	11/6/2017 22:36	0.012
11/6/2017 21:05	0.01	11/6/2017 21:51	0.011	11/6/2017 22:37	0.012
11/6/2017 21:06	0.01	11/6/2017 21:52	0.011	11/6/2017 22:38	0.012
11/6/2017 21:07	0.01	11/6/2017 21:53	0.011	11/6/2017 22:39	0.012
11/6/2017 21:08	0.01	11/6/2017 21:54	0.011	11/6/2017 22:40	0.012
11/6/2017 21:09	0.01	11/6/2017 21:55	0.011	11/6/2017 22:41	0.012
11/6/2017 21:10	0.01	11/6/2017 21:56	0.011	11/6/2017 22:42	0.012
11/6/2017 21:11	0.01	11/6/2017 21:57	0.011	11/6/2017 22:43	0.012
11/6/2017 21:12	0.01	11/6/2017 21:58	0.011	11/6/2017 22:44	0.012
11/6/2017 21:13	0.01	11/6/2017 21:59	0.011	11/6/2017 22:45	0.012
11/6/2017 21:14	0.01	11/6/2017 22:00	0.011	11/6/2017 22:46	0.012
11/6/2017 21:15	0.011	11/6/2017 22:01	0.011	11/6/2017 22:47	0.012
11/6/2017 21:16	0.01	11/6/2017 22:02	0.011	11/6/2017 22:48	0.012
11/6/2017 21:17	0.01	11/6/2017 22:03	0.012	11/6/2017 22:49	0.012
11/6/2017 21:18	0.01	11/6/2017 22:04	0.011	11/6/2017 22:50	0.012
11/6/2017 21:19	0.01	11/6/2017 22:05	0.011	11/6/2017 22:51	0.012
11/6/2017 21:20	0.011	11/6/2017 22:06	0.011	11/6/2017 22:52	0.012
11/6/2017 21:21	0.016	11/6/2017 22:07	0.012	11/6/2017 22:53	0.012
11/6/2017 21:22	0.01	11/6/2017 22:08	0.012	11/6/2017 22:54	0.012
11/6/2017 21:23	0.011	11/6/2017 22:09	0.012	11/6/2017 22:55	0.013
11/6/2017 21:24	0.011	11/6/2017 22:10	0.012	11/6/2017 22:56	0.013
11/6/2017 21:25	0.011	11/6/2017 22:11	0.012	11/6/2017 22:57	0.013
11/6/2017 21:26	0.011	11/6/2017 22:12	0.012	11/6/2017 22:58	0.013
11/6/2017 21:27	0.01	11/6/2017 22:13	0.012	11/6/2017 22:59	0.013
11/6/2017 21:28	0.011	11/6/2017 22:14	0.012	11/6/2017 23:00	0.013
11/6/2017 21:29	0.01	11/6/2017 22:15	0.011	11/6/2017 23:01	0.013
11/6/2017 21:30	0.011	11/6/2017 22:16	0.011	11/6/2017 23:02	0.013
11/6/2017 21:31	0.011	11/6/2017 22:17	0.012	11/6/2017 23:03	0.013
11/6/2017 21:32	0.011	11/6/2017 22:18	0.012	11/6/2017 23:04	0.013
11/6/2017 21:33	0.011	11/6/2017 22:19	0.011	11/6/2017 23:05	0.013
11/6/2017 21:34	0.011	11/6/2017 22:20	0.011	11/6/2017 23:06	0.013
11/6/2017 21:35	0.011	11/6/2017 22:21	0.011	11/6/2017 23:07	0.013
11/6/2017 21:36	0.011	11/6/2017 22:22	0.012	11/6/2017 23:08	0.013
11/6/2017 21:37	0.011	11/6/2017 22:23	0.012	11/6/2017 23:09	0.013
11/6/2017 21:38	0.011	11/6/2017 22:24	0.012	11/6/2017 23:10	0.013

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/6/2017 23:11	0.013	11/6/2017 23:57	0.013	11/7/2017 0:43	0.014
11/6/2017 23:12	0.013	11/6/2017 23:58	0.013	11/7/2017 0:44	0.013
11/6/2017 23:13	0.013	11/6/2017 23:59	0.014	11/7/2017 0:45	0.013
11/6/2017 23:14	0.013	11/7/2017 0:00	0.014	11/7/2017 0:46	0.013
11/6/2017 23:15	0.013	11/7/2017 0:01	0.014	11/7/2017 0:47	0.013
11/6/2017 23:16	0.013	11/7/2017 0:02	0.014	11/7/2017 0:48	0.013
11/6/2017 23:17	0.013	11/7/2017 0:03	0.014	11/7/2017 0:49	0.013
11/6/2017 23:18	0.013	11/7/2017 0:04	0.014	11/7/2017 0:50	0.014
11/6/2017 23:19	0.013	11/7/2017 0:05	0.014	11/7/2017 0:51	0.013
11/6/2017 23:20	0.013	11/7/2017 0:06	0.014	11/7/2017 0:52	0.013
11/6/2017 23:21	0.013	11/7/2017 0:07	0.014	11/7/2017 0:53	0.013
11/6/2017 23:22	0.013	11/7/2017 0:08	0.014	11/7/2017 0:54	0.013
11/6/2017 23:23	0.013	11/7/2017 0:09	0.014	11/7/2017 0:55	0.013
11/6/2017 23:24	0.013	11/7/2017 0:10	0.014	11/7/2017 0:56	0.013
11/6/2017 23:25	0.013	11/7/2017 0:11	0.013	11/7/2017 0:57	0.013
11/6/2017 23:26	0.013	11/7/2017 0:12	0.014	11/7/2017 0:58	0.013
11/6/2017 23:27	0.013	11/7/2017 0:13	0.014	11/7/2017 0:59	0.013
11/6/2017 23:28	0.013	11/7/2017 0:14	0.014	11/7/2017 1:00	0.013
11/6/2017 23:29	0.013	11/7/2017 0:15	0.014	11/7/2017 1:01	0.013
11/6/2017 23:30	0.013	11/7/2017 0:16	0.014	11/7/2017 1:02	0.014
11/6/2017 23:31	0.013	11/7/2017 0:17	0.014	11/7/2017 1:03	0.014
11/6/2017 23:32	0.013	11/7/2017 0:18	0.014	11/7/2017 1:04	0.013
11/6/2017 23:33	0.013	11/7/2017 0:19	0.014	11/7/2017 1:05	0.013
11/6/2017 23:34	0.013	11/7/2017 0:20	0.014	11/7/2017 1:06	0.013
11/6/2017 23:35	0.013	11/7/2017 0:21	0.014	11/7/2017 1:07	0.013
11/6/2017 23:36	0.013	11/7/2017 0:22	0.014	11/7/2017 1:08	0.013
11/6/2017 23:37	0.013	11/7/2017 0:23	0.014	11/7/2017 1:09	0.013
11/6/2017 23:38	0.013	11/7/2017 0:24	0.014	11/7/2017 1:10	0.013
11/6/2017 23:39	0.013	11/7/2017 0:25	0.014	11/7/2017 1:11	0.013
11/6/2017 23:40	0.013	11/7/2017 0:26	0.014	11/7/2017 1:12	0.013
11/6/2017 23:41	0.013	11/7/2017 0:27	0.013	11/7/2017 1:13	0.013
11/6/2017 23:42	0.013	11/7/2017 0:28	0.013	11/7/2017 1:14	0.013
11/6/2017 23:43	0.013	11/7/2017 0:29	0.014	11/7/2017 1:15	0.013
11/6/2017 23:44	0.014	11/7/2017 0:30	0.014	11/7/2017 1:16	0.014
11/6/2017 23:45	0.013	11/7/2017 0:31	0.014	11/7/2017 1:17	0.013
11/6/2017 23:46	0.013	11/7/2017 0:32	0.014	11/7/2017 1:18	0.013
11/6/2017 23:47	0.013	11/7/2017 0:33	0.014	11/7/2017 1:19	0.013
11/6/2017 23:48	0.013	11/7/2017 0:34	0.014	11/7/2017 1:20	0.013
11/6/2017 23:49	0.013	11/7/2017 0:35	0.014	11/7/2017 1:21	0.013
11/6/2017 23:50	0.013	11/7/2017 0:36	0.014	11/7/2017 1:22	0.013
11/6/2017 23:51	0.013	11/7/2017 0:37	0.014	11/7/2017 1:23	0.013
11/6/2017 23:52	0.013	11/7/2017 0:38	0.014	11/7/2017 1:24	0.013
11/6/2017 23:53	0.013	11/7/2017 0:39	0.014	11/7/2017 1:25	0.013
11/6/2017 23:54	0.013	11/7/2017 0:40	0.013	11/7/2017 1:26	0.013
11/6/2017 23:55	0.013	11/7/2017 0:41	0.013	11/7/2017 1:27	0.013
11/6/2017 23:56	0.013	11/7/2017 0:42	0.014	11/7/2017 1:28	0.013

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/7/2017 1:29	0.013	11/7/2017 2:15	0.012
11/7/2017 1:30	0.013	11/7/2017 2:16	0.012
11/7/2017 1:31	0.013	11/7/2017 2:17	0.012
11/7/2017 1:32	0.013	11/7/2017 2:18	0.012
11/7/2017 1:33	0.013	11/7/2017 2:19	0.012
11/7/2017 1:34	0.013	11/7/2017 2:20	0.012
11/7/2017 1:35	0.013	11/7/2017 2:21	0.012
11/7/2017 1:36	0.013	11/7/2017 2:22	0.012
11/7/2017 1:37	0.013	11/7/2017 2:23	0.012
11/7/2017 1:38	0.013	11/7/2017 2:24	0.012
11/7/2017 1:39	0.013	11/7/2017 2:25	0.012
11/7/2017 1:40	0.012	11/7/2017 2:26	0.012
11/7/2017 1:41	0.012	11/7/2017 2:27	0.012
11/7/2017 1:42	0.012	11/7/2017 2:28	0.01
11/7/2017 1:43	0.012	11/7/2017 2:29	0.003
11/7/2017 1:44	0.012	11/7/2017 2:30	0.004
11/7/2017 1:45	0.012	11/7/2017 2:31	0.007
11/7/2017 1:46	0.012	11/7/2017 2:32	0.012
11/7/2017 1:47	0.012		
11/7/2017 1:48	0.012		
11/7/2017 1:49	0.012		
11/7/2017 1:50	0.012		
11/7/2017 1:51	0.012		
11/7/2017 1:52	0.012		
11/7/2017 1:53	0.012		
11/7/2017 1:54	0.012		
11/7/2017 1:55	0.013		
11/7/2017 1:56	0.012		
11/7/2017 1:57	0.013		
11/7/2017 1:58	0.013		
11/7/2017 1:59	0.012		
11/7/2017 2:00	0.013		
11/7/2017 2:01	0.013		
11/7/2017 2:02	0.013		
11/7/2017 2:03	0.012		
11/7/2017 2:04	0.012		
11/7/2017 2:05	0.012		
11/7/2017 2:06	0.012		
11/7/2017 2:07	0.013		
11/7/2017 2:08	0.012		
11/7/2017 2:09	0.012		
11/7/2017 2:10	0.012		
11/7/2017 2:11	0.012		
11/7/2017 2:12	0.012		
11/7/2017 2:13	0.012		
11/7/2017 2:14	0.012		

Location 8		Total Average (mg/m ³) = 0.012			
Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
11/7/2017 11:05	0.015	11/7/2017 11:48	0.012	11/7/2017 12:31	0.012
11/7/2017 11:06	0.018	11/7/2017 11:49	0.012	11/7/2017 12:32	0.012
11/7/2017 11:07	0.017	11/7/2017 11:50	0.012	11/7/2017 12:33	0.012
11/7/2017 11:08	0.015	11/7/2017 11:51	0.012	11/7/2017 12:34	0.016
11/7/2017 11:09	0.015	11/7/2017 11:52	0.012	11/7/2017 12:35	0.012
11/7/2017 11:10	0.015	11/7/2017 11:53	0.012	11/7/2017 12:36	0.012
11/7/2017 11:11	0.015	11/7/2017 11:54	0.012	11/7/2017 12:37	0.012
11/7/2017 11:12	0.014	11/7/2017 11:55	0.012	11/7/2017 12:38	0.012
11/7/2017 11:13	0.014	11/7/2017 11:56	0.012	11/7/2017 12:39	0.011
11/7/2017 11:14	0.014	11/7/2017 11:57	0.012	11/7/2017 12:40	0.012
11/7/2017 11:15	0.014	11/7/2017 11:58	0.012	11/7/2017 12:41	0.012
11/7/2017 11:16	0.014	11/7/2017 11:59	0.012	11/7/2017 12:42	0.012
11/7/2017 11:17	0.013	11/7/2017 12:00	0.012	11/7/2017 12:43	0.012
11/7/2017 11:18	0.014	11/7/2017 12:01	0.011	11/7/2017 12:44	0.011
11/7/2017 11:19	0.013	11/7/2017 12:02	0.012	11/7/2017 12:45	0.011
11/7/2017 11:20	0.013	11/7/2017 12:03	0.012	11/7/2017 12:46	0.012
11/7/2017 11:21	0.013	11/7/2017 12:04	0.011	11/7/2017 12:47	0.011
11/7/2017 11:22	0.013	11/7/2017 12:05	0.012	11/7/2017 12:48	0.011
11/7/2017 11:23	0.013	11/7/2017 12:06	0.012	11/7/2017 12:49	0.011
11/7/2017 11:24	0.015	11/7/2017 12:07	0.012	11/7/2017 12:50	0.011
11/7/2017 11:25	0.013	11/7/2017 12:08	0.012	11/7/2017 12:51	0.011
11/7/2017 11:26	0.013	11/7/2017 12:09	0.012	11/7/2017 12:52	0.011
11/7/2017 11:27	0.013	11/7/2017 12:10	0.012	11/7/2017 12:53	0.011
11/7/2017 11:28	0.013	11/7/2017 12:11	0.012	11/7/2017 12:54	0.012
11/7/2017 11:29	0.013	11/7/2017 12:12	0.012	11/7/2017 12:55	0.012
11/7/2017 11:30	0.012	11/7/2017 12:13	0.012	11/7/2017 12:56	0.011
11/7/2017 11:31	0.013	11/7/2017 12:14	0.012	11/7/2017 12:57	0.011
11/7/2017 11:32	0.013	11/7/2017 12:15	0.012	11/7/2017 12:58	0.011
11/7/2017 11:33	0.013	11/7/2017 12:16	0.012	11/7/2017 12:59	0.011
11/7/2017 11:34	0.013	11/7/2017 12:17	0.012	11/7/2017 13:00	0.011
11/7/2017 11:35	0.013	11/7/2017 12:18	0.012	11/7/2017 13:01	0.011
11/7/2017 11:36	0.013	11/7/2017 12:19	0.012	11/7/2017 13:02	0.011
11/7/2017 11:37	0.013	11/7/2017 12:20	0.012	11/7/2017 13:03	0.011
11/7/2017 11:38	0.013	11/7/2017 12:21	0.012	11/7/2017 13:04	0.011
11/7/2017 11:39	0.013	11/7/2017 12:22	0.012		
11/7/2017 11:40	0.013	11/7/2017 12:23	0.012		
11/7/2017 11:41	0.013	11/7/2017 12:24	0.012		
11/7/2017 11:42	0.013	11/7/2017 12:25	0.012		
11/7/2017 11:43	0.013	11/7/2017 12:26	0.013		
11/7/2017 11:44	0.013	11/7/2017 12:27	0.015		
11/7/2017 11:45	0.013	11/7/2017 12:28	0.012		
11/7/2017 11:46	0.012	11/7/2017 12:29	0.012		
11/7/2017 11:47	0.012	11/7/2017 12:30	0.012		

Location 1	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	2592	3.26E+10	1.10E+07
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max (dB)	Leq Min (dB)
41.59114;-74.8738	10/30/2017 13:30	71	43.4	1.26E+07	2.19E+04	71.00	36.27
Location 1 Start	10/30/2017 13:30	71	43.4	1.26E+07	2.19E+04		
	10/30/2017 13:31	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:31	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:32	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:32	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:33	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:33	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:34	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:34	71	41.8	1.26E+07	1.51E+04		
41.59117;-74.87383	10/30/2017 13:35	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:35	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:36	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:36	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:37	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:37	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:38	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:38	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:39	71	41.8	1.26E+07	1.51E+04		
	10/30/2017 13:39	71	41.8	1.26E+07	1.51E+04		
41.59113;-74.87373	10/30/2017 13:40	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:40	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:41	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:41	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:42	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:42	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:43	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:43	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:44	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:44	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:45	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:45	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:46	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:46	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:47	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:47	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:48	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:48	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:49	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:49	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:50	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:50	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:51	71	40.2	1.26E+07	1.05E+04		
	10/30/2017 13:51	71	40.2	1.26E+07	1.05E+04		

	10/31/2017 2:36	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:37	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:37	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:38	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:38	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:39	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:39	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:40	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:40	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:41	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:41	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:42	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:42	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:43	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:43	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:44	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:44	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:45	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:45	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:46	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:46	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:47	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:47	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:48	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:49	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:49	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:50	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:50	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:51	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:51	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:52	71	37.8	1.26E+07	6.03E+03
	10/31/2017 2:52	71	26.2	1.26E+07	4.17E+02
	10/31/2017 2:53	71	26.2	1.26E+07	4.17E+02
	10/31/2017 2:53	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:54	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:54	71	25.5	1.26E+07	3.55E+02
41.59115;-74.87371	10/31/2017 2:55	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:55	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:56	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:56	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:57	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:57	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:58	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:58	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:59	71	25.5	1.26E+07	3.55E+02
	10/31/2017 2:59	71	25.5	1.26E+07	3.55E+02
41.59118;-74.87373	10/31/2017 3:00	71	25.5	1.26E+07	3.55E+02

	10/31/2017 3:47	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:47	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:48	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:48	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:49	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:49	71	25.5	1.26E+07	3.55E+02
41.59109;-74.87368	10/31/2017 3:50	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:50	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:51	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:51	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:52	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:52	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:53	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:53	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:54	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:54	71	25.5	1.26E+07	3.55E+02
41.59111;-74.87373	10/31/2017 3:55	71	25.5	1.26E+07	3.55E+02
	10/31/2017 3:55	71	25.2	1.26E+07	3.31E+02
	10/31/2017 3:56	71	25.2	1.26E+07	3.31E+02
	10/31/2017 3:56	71	25	1.26E+07	3.16E+02
	10/31/2017 3:57	71	25	1.26E+07	3.16E+02
	10/31/2017 3:57	71	24.7	1.26E+07	2.95E+02
	10/31/2017 3:58	71	24.7	1.26E+07	2.95E+02
	10/31/2017 3:58	71	24.7	1.26E+07	2.95E+02
	10/31/2017 3:59	71	24.5	1.26E+07	2.82E+02
	10/31/2017 3:59	71	24.5	1.26E+07	2.82E+02
41.59102;-74.87377	10/31/2017 4:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:04	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:04	71	24.5	1.26E+07	2.82E+02
41.59116;-74.87376	10/31/2017 4:05	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:05	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:06	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:06	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:07	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:09	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:09	71	24.5	1.26E+07	2.82E+02
41.59119;-74.8738	10/31/2017 4:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:10	71	24.5	1.26E+07	2.82E+02

	10/31/2017 4:34	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87381	10/31/2017 4:35	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:35	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:36	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:36	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:37	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:37	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:38	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:38	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:39	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:39	71	24.5	1.26E+07	2.82E+02
41.59109;-74.87395	10/31/2017 4:40	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:40	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:42	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:42	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:43	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:43	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:44	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:44	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87374	10/31/2017 4:45	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:45	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:46	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:46	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:47	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:47	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:48	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:48	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:49	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:49	71	24.5	1.26E+07	2.82E+02
41.59113;-74.87387	10/31/2017 4:50	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:50	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:53	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:53	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:54	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:54	71	24.5	1.26E+07	2.82E+02
41.59113;-74.87377	10/31/2017 4:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:56	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:56	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:57	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:57	71	24.5	1.26E+07	2.82E+02

	10/31/2017 4:58	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:58	71	24.5	1.26E+07	2.82E+02
	10/31/2017 4:59	71	24.5	1.26E+07	2.82E+02
41.5912;-74.87384	10/31/2017 5:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:04	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:04	71	24.5	1.26E+07	2.82E+02
41.59121;-74.87381	10/31/2017 5:05	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:05	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:06	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:06	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:07	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:07	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:09	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:09	71	24.5	1.26E+07	2.82E+02
41.59121;-74.87386	10/31/2017 5:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:11	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:11	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:12	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:12	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:13	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:13	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:14	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:14	71	24.5	1.26E+07	2.82E+02
41.59123;-74.87381	10/31/2017 5:15	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:15	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:16	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:16	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:17	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:17	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:18	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:18	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:19	71	24.5	1.26E+07	2.82E+02
41.5912;-74.87382	10/31/2017 5:20	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:21	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:21	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:22	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:22	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:23	71	24.5	1.26E+07	2.82E+02

	10/31/2017 5:23	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:24	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:24	71	24.5	1.26E+07	2.82E+02
41.59123;-74.87381	10/31/2017 5:25	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:26	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:27	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:27	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:28	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:28	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:29	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:29	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87383	10/31/2017 5:30	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:31	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:32	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:34	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:34	71	24.5	1.26E+07	2.82E+02
41.59101;-74.87365	10/31/2017 5:35	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:37	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:38	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:44	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:44	71	24.5	1.26E+07	2.82E+02
41.59116;-74.87373	10/31/2017 5:45	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:49	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:49	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87377	10/31/2017 5:50	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:52	71	24.5	1.26E+07	2.82E+02
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41.59124;-74.87376	10/31/2017 5:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:56	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:56	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:57	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 5:58	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:59	71	24.5	1.26E+07	2.82E+02
	10/31/2017 5:59	71	24.5	1.26E+07	2.82E+02
41.59127;-74.87383	10/31/2017 6:00	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:04	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:04	71	24.5	1.26E+07	2.82E+02
41.59132;-74.87379	10/31/2017 6:05	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:06	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:07	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:09	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:09	71	24.5	1.26E+07	2.82E+02
41.59124;-74.8737	10/31/2017 6:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:10	71	24.5	1.26E+07	2.82E+02

	10/31/2017 6:34	71	24.5	1.26E+07	2.82E+02
41.59109;-74.87379	10/31/2017 6:35	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:35	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:36	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:36	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:37	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:38	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:38	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:39	71	24.5	1.26E+07	2.82E+02
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41.59115;-74.8737	10/31/2017 6:40	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:42	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:49	71	24.5	1.26E+07	2.82E+02
41.5912;-74.87378	10/31/2017 6:50	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:53	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:54	71	24.5	1.26E+07	2.82E+02
41.59118;-74.87375	10/31/2017 6:55	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:57	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:57	71	24.5	1.26E+07	2.82E+02

	10/31/2017 6:58	71	24.5	1.26E+07	2.82E+02
	10/31/2017 6:58	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 6:59	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87376	10/31/2017 7:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:04	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:04	71	24.5	1.26E+07	2.82E+02
41.59118;-74.87381	10/31/2017 7:05	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:06	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:09	71	24.5	1.26E+07	2.82E+02
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41.59122;-74.87377	10/31/2017 7:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:11	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:12	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:13	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:13	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:14	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:14	71	24.5	1.26E+07	2.82E+02
41.59122;-74.87379	10/31/2017 7:15	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:16	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:19	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:19	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87379	10/31/2017 7:20	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:20	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:21	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:22	71	24.5	1.26E+07	2.82E+02

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	10/31/2017 7:27	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:28	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:28	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:29	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:29	71	24.5	1.26E+07	2.82E+02
41.59115;-74.87371	10/31/2017 7:30	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:30	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:31	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:31	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:32	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:33	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:33	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:34	71	24.5	1.26E+07	2.82E+02
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41.59114;-74.87378	10/31/2017 7:35	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:36	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:36	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:37	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:37	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:38	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:38	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:39	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:42	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:42	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:43	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:43	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:44	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:44	71	24.5	1.26E+07	2.82E+02
41.59114;-74.87366	10/31/2017 7:45	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:45	71	24.5	1.26E+07	2.82E+02

	10/31/2017 7:46	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:46	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:47	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:47	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:48	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:48	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:49	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:49	71	24.5	1.26E+07	2.82E+02
41.59115;-74.87378	10/31/2017 7:50	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:50	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:53	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:53	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:54	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:54	71	24.5	1.26E+07	2.82E+02
41.59119;-74.87378	10/31/2017 7:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 7:56	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 7:59	71	24.5	1.26E+07	2.82E+02
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41.59122;-74.87379	10/31/2017 8:00	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:04	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:04	71	24.5	1.26E+07	2.82E+02
41.59123;-74.87373	10/31/2017 8:05	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:07	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:07	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:09	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:09	71	24.5	1.26E+07	2.82E+02
41.59115;-74.87374	10/31/2017 8:10	71	24.5	1.26E+07	2.82E+02

	10/31/2017 8:34	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:34	71	24.5	1.26E+07	2.82E+02
41.59097;-74.87373	10/31/2017 8:35	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:35	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:47	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:48	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:51	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:52	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:54	71	24.5	1.26E+07	2.82E+02
41.59105;-74.87381	10/31/2017 8:55	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:56	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 8:57	71	24.5	1.26E+07	2.82E+02
	10/31/2017 8:57	71	24.5	1.26E+07	2.82E+02

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41.59119;-74.87365	10/31/2017 9:00	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:08	71	24.5	1.26E+07	2.82E+02
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41.59098;-74.8738	10/31/2017 9:15	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:19	71	24.5	1.26E+07	2.82E+02
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41.59093;-74.87385	10/31/2017 9:20	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:29	71	24.5	1.26E+07	2.82E+02
41.5909;-74.87393	10/31/2017 9:30	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:31	71	24.5	1.26E+07	2.82E+02
	10/31/2017 9:31	71	24.5	1.26E+07	2.82E+02
	10/31/2017 9:32	71	24.5	1.26E+07	2.82E+02
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41.59097;-74.87388	10/31/2017 9:35	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:36	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:39	71	24.5	1.26E+07	2.82E+02
	10/31/2017 9:39	71	24.5	1.26E+07	2.82E+02
41.59112;-74.87377	10/31/2017 9:40	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 9:44	71	24.5	1.26E+07	2.82E+02
41.59105;-74.87376	10/31/2017 9:45	71	24.5	1.26E+07	2.82E+02
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41.59116;-74.87375	10/31/2017 9:50	71	24.5	1.26E+07	2.82E+02
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41.59111;-74.87375	10/31/2017 9:55	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 10:36	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 10:39	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 10:41	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:42	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:43	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:43	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:44	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:44	71	24.5	1.26E+07	2.82E+02
41.59108;-74.87371	10/31/2017 10:45	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 10:46	71	24.5	1.26E+07	2.82E+02
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41.59113;-74.87374	10/31/2017 10:50	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 10:51	71	24.5	1.26E+07	2.82E+02
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	10/31/2017 10:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:52	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:53	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:53	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:54	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:54	71	24.5	1.26E+07	2.82E+02
41.59105;-74.87373	10/31/2017 10:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:55	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:56	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:56	71	24.5	1.26E+07	2.82E+02

	10/31/2017 10:57	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:57	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:58	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:58	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:59	71	24.5	1.26E+07	2.82E+02
	10/31/2017 10:59	71	24.5	1.26E+07	2.82E+02
41.59111;-74.87372	10/31/2017 11:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:00	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:01	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:02	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:03	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:04	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:04	71	24.5	1.26E+07	2.82E+02
41.59116;-74.87378	10/31/2017 11:05	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:05	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:06	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:06	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:07	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:07	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:08	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:09	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:09	71	24.5	1.26E+07	2.82E+02
41.59118;-74.87375	10/31/2017 11:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:10	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:11	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:11	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:12	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:12	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:13	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:13	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:14	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:14	71	24.5	1.26E+07	2.82E+02
41.59097;-74.87368	10/31/2017 11:15	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:15	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:16	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:16	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:17	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:17	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:18	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:18	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:19	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:19	71	24.5	1.26E+07	2.82E+02
41.59113;-74.87379	10/31/2017 11:20	71	24.5	1.26E+07	2.82E+02

	10/31/2017 11:20	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:21	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:21	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:22	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:22	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:23	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:23	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:24	71	24.5	1.26E+07	2.82E+02
	10/31/2017 11:24	71	24.5	1.26E+07	2.82E+02
41.59111;-74.8735	10/31/2017 11:25	71	24.5	1.26E+07	2.82E+02

Location 2	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	328	1.37E+09	1.16E+06
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Location 2 Start	11/1/2017 11:14	47.9	46.4	6.17E+04	4.37E+04	66.20	35.50
	11/1/2017 11:14	47.9	46.4	6.17E+04	4.37E+04		
	11/1/2017 11:15	47.9	46.4	6.17E+04	4.37E+04		
	11/1/2017 11:15	47.9	46.4	6.17E+04	4.37E+04		
	11/1/2017 11:16	62.3	36.6	1.70E+06	4.57E+03		
	11/1/2017 11:16	62.3	36.6	1.70E+06	4.57E+03		
	11/1/2017 11:17	64.6	36.6	2.88E+06	4.57E+03		
	11/1/2017 11:17	64.6	36.6	2.88E+06	4.57E+03		
	11/1/2017 11:18	64.6	35.5	2.88E+06	3.55E+03		
	11/1/2017 11:18	64.6	35.5	2.88E+06	3.55E+03		
	11/1/2017 11:19	64.6	35.3	2.88E+06	3.39E+03		
	11/1/2017 11:19	64.6	35.3	2.88E+06	3.39E+03		
41.58915;-74.8696	11/1/2017 11:20	64.6	35.2	2.88E+06	3.31E+03		
	11/1/2017 11:20	64.6	35.2	2.88E+06	3.31E+03		
	11/1/2017 11:21	64.6	35.2	2.88E+06	3.31E+03		
	11/1/2017 11:21	64.6	35.2	2.88E+06	3.31E+03		
	11/1/2017 11:22	64.6	35.2	2.88E+06	3.31E+03		
	11/1/2017 11:22	64.6	35.2	2.88E+06	3.31E+03		
	11/1/2017 11:23	64.8	35.2	3.02E+06	3.31E+03		
	11/1/2017 11:23	64.8	35.2	3.02E+06	3.31E+03		
	11/1/2017 11:24	64.8	35.2	3.02E+06	3.31E+03		
	11/1/2017 11:24	64.8	35.2	3.02E+06	3.31E+03		
	11/1/2017 11:25	64.8	35.2	3.02E+06	3.31E+03		
	11/1/2017 11:25	64.8	35.2	3.02E+06	3.31E+03		
	11/1/2017 11:26	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:26	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:27	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:27	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:28	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:28	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:29	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:29	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:30	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:30	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:31	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:31	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:32	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:32	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:33	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:33	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:34	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:34	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:35	64.8	34.8	3.02E+06	3.02E+03		
	11/1/2017 11:35	64.8	34.8	3.02E+06	3.02E+03		

	11/1/2017 13:58	67.6	34.8	5.75E+06	3.02E+03
Location 2 End	11/1/2017 13:59	67.6	34.8	5.75E+06	3.02E+03

Location 7	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	1233	8.15E+09	7.57E+06
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Start Location 7	11/6/2017 14:06	68.2	38.3	6.61E+06	6.76E+03	68.20	37.88
	11/6/2017 14:07	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:08	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:09	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:10	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:11	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:12	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:13	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:14	68.2	38.3	6.61E+06	6.76E+03		
41.59037;-74.87769	11/6/2017 14:15	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:16	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:17	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:18	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:19	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:20	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:21	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:22	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:23	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:24	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:25	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:26	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:27	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:28	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:29	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:30	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:31	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:32	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:33	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:34	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:35	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:36	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:37	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:38	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:39	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:40	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:41	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:42	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:43	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:44	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:45	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:46	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:47	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:48	68.2	38.3	6.61E+06	6.76E+03		
	11/6/2017 14:49	68.2	38.3	6.61E+06	6.76E+03		

41.59041;-74.87733	11/6/2017 14:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 14:59	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:04	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:09	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:14	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:19	68.2	38.3	6.61E+06	6.76E+03
41.59046;-74.87741	11/6/2017 15:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:24	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:29	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:34	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:36	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 15:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:39	68.2	38.3	6.61E+06	6.76E+03
41.5904;-74.87742	11/6/2017 15:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:49	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 15:59	68.2	38.3	6.61E+06	6.76E+03
41.59064;-74.87752	11/6/2017 16:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:04	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:05	68.2	38.3	6.61E+06	6.76E+03
41.59056;-74.87737	11/6/2017 16:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:09	68.2	38.3	6.61E+06	6.76E+03
41.59061;-74.87732	11/6/2017 16:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:14	68.2	38.3	6.61E+06	6.76E+03
41.59053;-74.87726	11/6/2017 16:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:19	68.2	38.3	6.61E+06	6.76E+03
41.59036;-74.87723	11/6/2017 16:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:22	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 16:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:24	68.2	38.3	6.61E+06	6.76E+03
41.59061;-74.87735	11/6/2017 16:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:29	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:34	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:39	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:49	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:54	68.2	38.3	6.61E+06	6.76E+03
41.5904;-74.8774	11/6/2017 16:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 16:59	68.2	38.3	6.61E+06	6.76E+03
41.5904;-74.8776	11/6/2017 17:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:04	68.2	38.3	6.61E+06	6.76E+03
41.59037;-74.87737	11/6/2017 17:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:09	68.2	38.3	6.61E+06	6.76E+03

41.59035;-74.87753	11/6/2017 17:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:14	68.2	38.3	6.61E+06	6.76E+03
41.59024;-74.87717	11/6/2017 17:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:19	68.2	38.3	6.61E+06	6.76E+03
41.59039;-74.8775	11/6/2017 17:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:24	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:29	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:34	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:39	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:49	68.2	38.3	6.61E+06	6.76E+03
41.59047;-74.87751	11/6/2017 17:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:56	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 17:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 17:59	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:04	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:09	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:14	68.2	38.3	6.61E+06	6.76E+03
41.59043;-74.87759	11/6/2017 18:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:19	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:24	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:29	68.2	38.3	6.61E+06	6.76E+03
41.59031;-74.87753	11/6/2017 18:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:34	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:39	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:43	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 18:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:49	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 18:59	68.2	38.3	6.61E+06	6.76E+03
41.59056;-74.8775	11/6/2017 19:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:04	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:09	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:14	68.2	38.3	6.61E+06	6.76E+03
41.59089;-74.87744	11/6/2017 19:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:19	68.2	38.3	6.61E+06	6.76E+03
41.59019;-74.87746	11/6/2017 19:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:24	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:29	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:30	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 19:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:34	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:39	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:44	68.2	38.3	6.61E+06	6.76E+03
41.59042;-74.87747	11/6/2017 19:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:49	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 19:59	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:04	68.2	38.3	6.61E+06	6.76E+03
41.59051;-74.8774	11/6/2017 20:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:09	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:14	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:17	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 20:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:19	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:24	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:29	68.2	38.3	6.61E+06	6.76E+03
41.59044;-74.87743	11/6/2017 20:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:34	68.2	38.3	6.61E+06	6.76E+03
41.59046;-74.87747	11/6/2017 20:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:39	68.2	38.3	6.61E+06	6.76E+03
41.59035;-74.87746	11/6/2017 20:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:49	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 20:59	68.2	38.3	6.61E+06	6.76E+03
41.59032;-74.87742	11/6/2017 21:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:04	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 21:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:09	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:14	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:19	68.2	38.3	6.61E+06	6.76E+03
41.5905;-74.87744	11/6/2017 21:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:24	68.2	38.3	6.61E+06	6.76E+03
41.59042;-74.87735	11/6/2017 21:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:29	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:34	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:39	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:49	68.2	38.3	6.61E+06	6.76E+03
41.59002;-74.87759	11/6/2017 21:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:51	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 21:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:54	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 21:59	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:04	68.2	38.3	6.61E+06	6.76E+03
41.59046;-74.87743	11/6/2017 22:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:09	68.2	38.3	6.61E+06	6.76E+03
41.59037;-74.87748	11/6/2017 22:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:14	68.2	38.3	6.61E+06	6.76E+03
41.59044;-74.87754	11/6/2017 22:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:19	68.2	38.3	6.61E+06	6.76E+03
41.59033;-74.8775	11/6/2017 22:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:24	68.2	38.3	6.61E+06	6.76E+03
41.59034;-74.87753	11/6/2017 22:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:29	68.2	38.3	6.61E+06	6.76E+03
41.5905;-74.87749	11/6/2017 22:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:34	68.2	38.3	6.61E+06	6.76E+03
41.59044;-74.87754	11/6/2017 22:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:37	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 22:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:39	68.2	38.3	6.61E+06	6.76E+03
41.59031;-74.87748	11/6/2017 22:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:44	68.2	38.3	6.61E+06	6.76E+03
41.59034;-74.87757	11/6/2017 22:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:49	68.2	38.3	6.61E+06	6.76E+03
41.59018;-74.87733	11/6/2017 22:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:54	68.2	38.3	6.61E+06	6.76E+03
41.59026;-74.8773	11/6/2017 22:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 22:59	68.2	38.3	6.61E+06	6.76E+03
41.59038;-74.87744	11/6/2017 23:00	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:01	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:02	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:03	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:04	68.2	38.3	6.61E+06	6.76E+03
41.59039;-74.87731	11/6/2017 23:05	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:06	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:07	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:08	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:09	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:10	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:11	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:12	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:13	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:14	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:15	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:16	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:17	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:18	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:19	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:20	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:21	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:22	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:23	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:24	68.2	38.3	6.61E+06	6.76E+03

	11/6/2017 23:25	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:26	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:27	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:28	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:29	68.2	38.3	6.61E+06	6.76E+03
41.59035;-74.87747	11/6/2017 23:30	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:31	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:32	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:33	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:34	68.2	38.3	6.61E+06	6.76E+03
41.59039;-74.87747	11/6/2017 23:35	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:36	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:37	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:38	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:39	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:40	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:41	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:42	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:43	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:44	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:45	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:46	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:47	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:48	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:49	68.2	38.3	6.61E+06	6.76E+03
41.59035;-74.8774	11/6/2017 23:50	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:51	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:52	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:53	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:54	68.2	38.3	6.61E+06	6.76E+03
41.59029;-74.87734	11/6/2017 23:55	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:56	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:57	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:58	68.2	38.3	6.61E+06	6.76E+03
	11/6/2017 23:59	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:00	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:01	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:02	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:02	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:03	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:04	68.2	38.3	6.61E+06	6.76E+03
41.59045;-74.87746	11/7/2017 0:05	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:06	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:07	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:08	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:09	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:10	68.2	38.3	6.61E+06	6.76E+03

	11/7/2017 0:11	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:12	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:13	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:14	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:15	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:16	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:17	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:18	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:19	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:20	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:21	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:22	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:23	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:24	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:25	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:26	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:27	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:28	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:29	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:30	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:31	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:32	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:33	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:34	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:35	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:36	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:37	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:38	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:39	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:40	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:41	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:42	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:43	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:44	68.2	38.3	6.61E+06	6.76E+03
41.59045;-74.87739	11/7/2017 0:45	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:46	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:47	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:48	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:49	68.2	38.3	6.61E+06	6.76E+03
41.59049;-74.87747	11/7/2017 0:50	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:51	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:52	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:53	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:54	68.2	38.3	6.61E+06	6.76E+03
41.59046;-74.87745	11/7/2017 0:55	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:56	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:57	68.2	38.3	6.61E+06	6.76E+03

	11/7/2017 0:58	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 0:59	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:00	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:01	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:02	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:03	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:04	68.2	38.3	6.61E+06	6.76E+03
41.59042;-74.87742	11/7/2017 1:05	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:06	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:07	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:08	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:09	68.2	38.3	6.61E+06	6.76E+03
41.59061;-74.87757	11/7/2017 1:10	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:11	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:12	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:13	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:14	68.2	38.3	6.61E+06	6.76E+03
41.59046;-74.87742	11/7/2017 1:15	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:16	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:17	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:18	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:19	68.2	38.3	6.61E+06	6.76E+03
41.59031;-74.87724	11/7/2017 1:20	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:21	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:22	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:23	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:24	68.2	38.3	6.61E+06	6.76E+03
41.59032;-74.8773	11/7/2017 1:25	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:26	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:27	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:28	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:29	68.2	38.3	6.61E+06	6.76E+03
41.59036;-74.87733	11/7/2017 1:30	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:31	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:32	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:33	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:34	68.2	38.3	6.61E+06	6.76E+03
41.59036;-74.87737	11/7/2017 1:35	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:36	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:37	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:38	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:39	68.2	38.3	6.61E+06	6.76E+03
41.59036;-74.87742	11/7/2017 1:40	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:41	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:42	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:43	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:44	68.2	38.3	6.61E+06	6.76E+03

41.59034;-74.87746	11/7/2017 1:45	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:46	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:47	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:48	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:49	68.2	38.3	6.61E+06	6.76E+03
41.59034;-74.87747	11/7/2017 1:50	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:51	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:52	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:53	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:54	68.2	38.3	6.61E+06	6.76E+03
41.59048;-74.8774	11/7/2017 1:55	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:56	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:57	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:58	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 1:59	68.2	38.3	6.61E+06	6.76E+03
41.59039;-74.87741	11/7/2017 2:00	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:01	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:02	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:03	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:04	68.2	38.3	6.61E+06	6.76E+03
41.59043;-74.87739	11/7/2017 2:05	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:06	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:07	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:08	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:09	68.2	38.3	6.61E+06	6.76E+03
41.5904;-74.87739	11/7/2017 2:10	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:11	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:12	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:13	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:14	68.2	38.3	6.61E+06	6.76E+03
41.59038;-74.87737	11/7/2017 2:15	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:16	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:17	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:18	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:19	68.2	38.3	6.61E+06	6.76E+03
41.59044;-74.87737	11/7/2017 2:20	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:21	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:22	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:23	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:24	68.2	38.3	6.61E+06	6.76E+03
41.59038;-74.87738	11/7/2017 2:25	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:26	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:27	68.2	38.3	6.61E+06	6.76E+03
	11/7/2017 2:28	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:29	68.2	37.4	6.61E+06	5.50E+03
41.59038;-74.87738	11/7/2017 2:30	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:31	68.2	37.4	6.61E+06	5.50E+03

	11/7/2017 2:32	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:33	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:34	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:35	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:36	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:37	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:38	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:39	68.2	37.4	6.61E+06	5.50E+03
41.59045;-74.87738	11/7/2017 2:40	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:41	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:42	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:43	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:44	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:45	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:46	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:47	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:48	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:49	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:50	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:51	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:52	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:53	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:54	68.2	37.4	6.61E+06	5.50E+03
41.59041;-74.87741	11/7/2017 2:55	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:56	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:57	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:58	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 2:59	68.2	37.4	6.61E+06	5.50E+03
41.59038;-74.87744	11/7/2017 3:00	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:01	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:02	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:03	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:04	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:05	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:06	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:07	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:08	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:09	68.2	37.4	6.61E+06	5.50E+03
	11/7/2017 3:10	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:11	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:12	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:13	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:14	68.2	37.3	6.61E+06	5.37E+03
41.59042;-74.87742	11/7/2017 3:15	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:16	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:17	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:18	68.2	37.3	6.61E+06	5.37E+03

	11/7/2017 3:19	68.2	37.3	6.61E+06	5.37E+03
41.59036;-74.87742	11/7/2017 3:20	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:21	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:22	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:23	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:24	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:25	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:26	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:27	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:28	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:29	68.2	37.3	6.61E+06	5.37E+03
41.59043;-74.87743	11/7/2017 3:30	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:31	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:32	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:33	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:34	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:35	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:36	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:37	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:38	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:39	68.2	37.3	6.61E+06	5.37E+03
	11/7/2017 3:40	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:41	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:42	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:43	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:44	68.2	37.2	6.61E+06	5.25E+03
41.59041;-74.87739	11/7/2017 3:45	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:46	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:47	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:48	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:49	68.2	37.2	6.61E+06	5.25E+03
41.59061;-74.87743	11/7/2017 3:50	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:51	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:52	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:53	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:54	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:55	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:56	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:57	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:58	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 3:59	68.2	37.2	6.61E+06	5.25E+03
41.59064;-74.87746	11/7/2017 4:00	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:01	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:02	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:03	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:04	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:05	68.2	37.2	6.61E+06	5.25E+03

	11/7/2017 4:06	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:07	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:08	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:09	68.2	37.2	6.61E+06	5.25E+03
41.59035;-74.87746	11/7/2017 4:10	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:11	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:12	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:13	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:14	68.2	37.2	6.61E+06	5.25E+03
41.59054;-74.87749	11/7/2017 4:15	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:16	68.2	37.2	6.61E+06	5.25E+03
	11/7/2017 4:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:19	68.2	37.1	6.61E+06	5.13E+03
41.59059;-74.87741	11/7/2017 4:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:21	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:24	68.2	37.1	6.61E+06	5.13E+03
41.59059;-74.8774	11/7/2017 4:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:26	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:29	68.2	37.1	6.61E+06	5.13E+03
41.59056;-74.87737	11/7/2017 4:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:34	68.2	37.1	6.61E+06	5.13E+03
41.59077;-74.87749	11/7/2017 4:35	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:36	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:37	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:38	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:39	68.2	37.1	6.61E+06	5.13E+03
41.59047;-74.87743	11/7/2017 4:40	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:41	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:42	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:43	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:44	68.2	37.1	6.61E+06	5.13E+03
41.59053;-74.87741	11/7/2017 4:45	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:46	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:47	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:48	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:49	68.2	37.1	6.61E+06	5.13E+03
41.59045;-74.87729	11/7/2017 4:50	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:51	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:52	68.2	37.1	6.61E+06	5.13E+03

	11/7/2017 4:53	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:54	68.2	37.1	6.61E+06	5.13E+03
41.59047;-74.87746	11/7/2017 4:55	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:56	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:57	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:58	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 4:59	68.2	37.1	6.61E+06	5.13E+03
41.5906;-74.8776	11/7/2017 5:00	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:01	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:02	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:03	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:04	68.2	37.1	6.61E+06	5.13E+03
41.59048;-74.8774	11/7/2017 5:05	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:06	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:07	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:08	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:09	68.2	37.1	6.61E+06	5.13E+03
41.59051;-74.87749	11/7/2017 5:10	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:11	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:12	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:13	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:14	68.2	37.1	6.61E+06	5.13E+03
41.5905;-74.87749	11/7/2017 5:15	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:16	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:19	68.2	37.1	6.61E+06	5.13E+03
41.59043;-74.87749	11/7/2017 5:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:21	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:24	68.2	37.1	6.61E+06	5.13E+03
41.5904;-74.87752	11/7/2017 5:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:26	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:29	68.2	37.1	6.61E+06	5.13E+03
41.59045;-74.87754	11/7/2017 5:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:34	68.2	37.1	6.61E+06	5.13E+03
41.59045;-74.87746	11/7/2017 5:35	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:36	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:37	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:38	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:39	68.2	37.1	6.61E+06	5.13E+03

41.59039;-74.87745	11/7/2017 5:40	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:41	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:42	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:43	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:44	68.2	37.1	6.61E+06	5.13E+03
41.59042;-74.87743	11/7/2017 5:45	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:46	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:47	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:48	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:49	68.2	37.1	6.61E+06	5.13E+03
41.59047;-74.87742	11/7/2017 5:50	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:51	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:52	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:53	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:54	68.2	37.1	6.61E+06	5.13E+03
41.59042;-74.87744	11/7/2017 5:55	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:56	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:57	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:58	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 5:59	68.2	37.1	6.61E+06	5.13E+03
41.59038;-74.87746	11/7/2017 6:00	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:01	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:02	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:03	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:04	68.2	37.1	6.61E+06	5.13E+03
41.59039;-74.87742	11/7/2017 6:05	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:06	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:07	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:08	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:09	68.2	37.1	6.61E+06	5.13E+03
41.59034;-74.87741	11/7/2017 6:10	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:11	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:12	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:13	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:14	68.2	37.1	6.61E+06	5.13E+03
41.59036;-74.87733	11/7/2017 6:15	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:16	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:19	68.2	37.1	6.61E+06	5.13E+03
41.59038;-74.87735	11/7/2017 6:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:21	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:24	68.2	37.1	6.61E+06	5.13E+03
41.59041;-74.87743	11/7/2017 6:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:26	68.2	37.1	6.61E+06	5.13E+03

	11/7/2017 6:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:29	68.2	37.1	6.61E+06	5.13E+03
41.59047;-74.8774	11/7/2017 6:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:34	68.2	37.1	6.61E+06	5.13E+03
41.5903;-74.8773	11/7/2017 6:35	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:36	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:37	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:38	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:39	68.2	37.1	6.61E+06	5.13E+03
41.59047;-74.87744	11/7/2017 6:40	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:41	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:42	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:43	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:44	68.2	37.1	6.61E+06	5.13E+03
41.59037;-74.87743	11/7/2017 6:45	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:46	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:47	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:48	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:49	68.2	37.1	6.61E+06	5.13E+03
41.59032;-74.87737	11/7/2017 6:50	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:51	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:52	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:53	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:54	68.2	37.1	6.61E+06	5.13E+03
41.59027;-74.8773	11/7/2017 6:55	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:56	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:57	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:58	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 6:59	68.2	37.1	6.61E+06	5.13E+03
41.59052;-74.8775	11/7/2017 7:00	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:01	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:02	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:03	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:04	68.2	37.1	6.61E+06	5.13E+03
41.59067;-74.87751	11/7/2017 7:05	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:06	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:07	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:08	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:09	68.2	37.1	6.61E+06	5.13E+03
41.59035;-74.87746	11/7/2017 7:10	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:11	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:12	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:13	68.2	37.1	6.61E+06	5.13E+03

	11/7/2017 7:14	68.2	37.1	6.61E+06	5.13E+03
41.59029;-74.87733	11/7/2017 7:15	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:16	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:19	68.2	37.1	6.61E+06	5.13E+03
41.59052;-74.87741	11/7/2017 7:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:21	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:24	68.2	37.1	6.61E+06	5.13E+03
41.59018;-74.87756	11/7/2017 7:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:26	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:29	68.2	37.1	6.61E+06	5.13E+03
41.58989;-74.87769	11/7/2017 7:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:34	68.2	37.1	6.61E+06	5.13E+03
41.5901;-74.87767	11/7/2017 7:35	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:36	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:37	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:38	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:39	68.2	37.1	6.61E+06	5.13E+03
41.59017;-74.87756	11/7/2017 7:40	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:41	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:42	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:43	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:44	68.2	37.1	6.61E+06	5.13E+03
41.58991;-74.87764	11/7/2017 7:45	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:46	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:47	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:48	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:49	68.2	37.1	6.61E+06	5.13E+03
41.59027;-74.87758	11/7/2017 7:50	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:51	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:52	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:53	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:54	68.2	37.1	6.61E+06	5.13E+03
41.59032;-74.87743	11/7/2017 7:55	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:56	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:57	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:58	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 7:59	68.2	37.1	6.61E+06	5.13E+03
41.59046;-74.87733	11/7/2017 8:00	68.2	37.1	6.61E+06	5.13E+03

	11/7/2017 8:01	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:02	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:03	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:04	68.2	37.1	6.61E+06	5.13E+03
41.59038;-74.87743	11/7/2017 8:05	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:06	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:07	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:08	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:09	68.2	37.1	6.61E+06	5.13E+03
41.59034;-74.87747	11/7/2017 8:10	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:11	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:12	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:13	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:14	68.2	37.1	6.61E+06	5.13E+03
41.59029;-74.87746	11/7/2017 8:15	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:16	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:19	68.2	37.1	6.61E+06	5.13E+03
41.59018;-74.87743	11/7/2017 8:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:21	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:24	68.2	37.1	6.61E+06	5.13E+03
41.59028;-74.87742	11/7/2017 8:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:26	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:29	68.2	37.1	6.61E+06	5.13E+03
41.5903;-74.87749	11/7/2017 8:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:34	68.2	37.1	6.61E+06	5.13E+03
41.5903;-74.87746	11/7/2017 8:35	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:36	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:37	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:38	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:39	68.2	37.1	6.61E+06	5.13E+03
41.59034;-74.8775	11/7/2017 8:40	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:41	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:42	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:43	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:44	68.2	37.1	6.61E+06	5.13E+03
41.59035;-74.87748	11/7/2017 8:45	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:46	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:47	68.2	37.1	6.61E+06	5.13E+03

	11/7/2017 8:48	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:49	68.2	37.1	6.61E+06	5.13E+03
41.59031;-74.87737	11/7/2017 8:50	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:51	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:52	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:53	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:54	68.2	37.1	6.61E+06	5.13E+03
41.59032;-74.87741	11/7/2017 8:55	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:56	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:57	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:58	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 8:59	68.2	37.1	6.61E+06	5.13E+03
41.59044;-74.87748	11/7/2017 9:00	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:01	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:02	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:03	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:04	68.2	37.1	6.61E+06	5.13E+03
41.59028;-74.87743	11/7/2017 9:05	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:06	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:07	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:08	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:09	68.2	37.1	6.61E+06	5.13E+03
41.59036;-74.87737	11/7/2017 9:10	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:11	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:12	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:13	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:14	68.2	37.1	6.61E+06	5.13E+03
41.59031;-74.87743	11/7/2017 9:15	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:16	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:19	68.2	37.1	6.61E+06	5.13E+03
41.59044;-74.87737	11/7/2017 9:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:21	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:24	68.2	37.1	6.61E+06	5.13E+03
41.59035;-74.87741	11/7/2017 9:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:26	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:29	68.2	37.1	6.61E+06	5.13E+03
41.59035;-74.87744	11/7/2017 9:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:34	68.2	37.1	6.61E+06	5.13E+03

41.59035;-74.87734	11/7/2017 9:35	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:36	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:37	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:38	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:39	68.2	37.1	6.61E+06	5.13E+03
41.5903;-74.87738	11/7/2017 9:40	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:41	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:42	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:43	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:44	68.2	37.1	6.61E+06	5.13E+03
41.5903;-74.87753	11/7/2017 9:45	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:46	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:47	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:48	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:49	68.2	37.1	6.61E+06	5.13E+03
41.59028;-74.87743	11/7/2017 9:50	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:51	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:52	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:53	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:54	68.2	37.1	6.61E+06	5.13E+03
41.59034;-74.87746	11/7/2017 9:55	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:56	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:57	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:58	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 9:59	68.2	37.1	6.61E+06	5.13E+03
41.59009;-74.87841	11/7/2017 10:00	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:01	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:02	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:03	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:04	68.2	37.1	6.61E+06	5.13E+03
41.59032;-74.87742	11/7/2017 10:05	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:06	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:07	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:08	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:09	68.2	37.1	6.61E+06	5.13E+03
41.59032;-74.87751	11/7/2017 10:10	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:11	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:12	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:13	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:14	68.2	37.1	6.61E+06	5.13E+03
41.59042;-74.87753	11/7/2017 10:15	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:16	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:17	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:18	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:19	68.2	37.1	6.61E+06	5.13E+03
41.59037;-74.87744	11/7/2017 10:20	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:21	68.2	37.1	6.61E+06	5.13E+03

	11/7/2017 10:22	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:23	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:24	68.2	37.1	6.61E+06	5.13E+03
41.59044;-74.87749	11/7/2017 10:25	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:26	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:27	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:28	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:29	68.2	37.1	6.61E+06	5.13E+03
41.59036;-74.87743	11/7/2017 10:30	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:31	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:32	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:33	68.2	37.1	6.61E+06	5.13E+03
	11/7/2017 10:34	68.2	37.1	6.61E+06	5.13E+03
41.59031;-74.87757	11/7/2017 10:35	68.2	37.1	6.61E+06	5.13E+03

Location 3	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	2556	9.24E+10	2.46E+06
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Location 3 Start	11/1/2017 14:21	52.2	49.1	1.66E+05	8.13E+04	75.58	29.83
	11/1/2017 14:22	65.1	43.5	3.24E+06	2.24E+04		
	11/1/2017 14:22	65.1	43.5	3.24E+06	2.24E+04		
	11/1/2017 14:23	65.1	40.2	3.24E+06	1.05E+04		
	11/1/2017 14:23	65.1	40.2	3.24E+06	1.05E+04		
	11/1/2017 14:24	65.1	35.9	3.24E+06	3.89E+03		
	11/1/2017 14:24	65.1	35.9	3.24E+06	3.89E+03		
	11/1/2017 14:25	65.1	35.9	3.24E+06	3.89E+03		
	11/1/2017 14:25	65.1	35.9	3.24E+06	3.89E+03		
	11/1/2017 14:26	65.9	35.9	3.89E+06	3.89E+03		
	11/1/2017 14:27	69	35.9	7.94E+06	3.89E+03		
	11/1/2017 14:28	75.6	35.9	3.63E+07	3.89E+03		
	11/1/2017 14:28	75.6	35.9	3.63E+07	3.89E+03		
	11/1/2017 14:29	75.6	34.5	3.63E+07	2.82E+03		
	11/1/2017 14:29	75.6	34.5	3.63E+07	2.82E+03		
	11/1/2017 14:30	75.6	32.6	3.63E+07	1.82E+03		
	11/1/2017 14:30	75.6	32.6	3.63E+07	1.82E+03		
	11/1/2017 14:31	75.6	32.5	3.63E+07	1.78E+03		
	11/1/2017 14:31	75.6	32.5	3.63E+07	1.78E+03		
	11/1/2017 14:32	75.6	32.5	3.63E+07	1.78E+03		
	11/1/2017 14:32	75.6	32.5	3.63E+07	1.78E+03		
	11/1/2017 14:33	75.6	32.5	3.63E+07	1.78E+03		
	11/1/2017 14:33	75.6	32.5	3.63E+07	1.78E+03		
	11/1/2017 14:34	75.6	32	3.63E+07	1.58E+03		
	11/1/2017 14:34	75.6	32	3.63E+07	1.58E+03		
	11/1/2017 14:35	75.6	32	3.63E+07	1.58E+03		
	11/1/2017 14:35	75.6	32	3.63E+07	1.58E+03		
	11/1/2017 14:36	75.6	31.9	3.63E+07	1.55E+03		
	11/1/2017 14:36	75.6	31.9	3.63E+07	1.55E+03		
	11/1/2017 14:37	75.6	31.9	3.63E+07	1.55E+03		
	11/1/2017 14:37	75.6	31.9	3.63E+07	1.55E+03		
	11/1/2017 14:38	75.6	31.9	3.63E+07	1.55E+03		
	11/1/2017 14:38	75.6	31.9	3.63E+07	1.55E+03		
	11/1/2017 14:39	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:39	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:40	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:40	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:41	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:41	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:42	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:42	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:43	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:43	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:44	75.6	31.8	3.63E+07	1.51E+03		
	11/1/2017 14:44	75.6	31.8	3.63E+07	1.51E+03		

	11/2/2017 4:19	75.6	28.7	3.63E+07	7.41E+02
	11/2/2017 4:19	75.6	28.7	3.63E+07	7.41E+02
41.59019;-74.86814	11/2/2017 4:20	75.6	28.7	3.63E+07	7.41E+02
	11/2/2017 4:20	75.6	28.7	3.63E+07	7.41E+02
	11/2/2017 4:21	75.6	28.7	3.63E+07	7.41E+02
	11/2/2017 4:21	75.6	28.7	3.63E+07	7.41E+02
	11/2/2017 4:22	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:22	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:23	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:23	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:24	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:24	75.6	27.6	3.63E+07	5.75E+02
41.59017;-74.86819	11/2/2017 4:25	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:25	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:26	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:26	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:27	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:27	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:28	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:28	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:29	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:29	75.6	27.6	3.63E+07	5.75E+02
41.59015;-74.8682	11/2/2017 4:30	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:30	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:31	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:31	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:32	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:32	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:33	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:33	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:34	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:34	75.6	27.6	3.63E+07	5.75E+02
41.59015;-74.86819	11/2/2017 4:35	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:35	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:36	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:36	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:37	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:37	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:38	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:38	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:39	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:39	75.6	27.6	3.63E+07	5.75E+02
41.59012;-74.86815	11/2/2017 4:40	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:40	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:41	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:41	75.6	27.6	3.63E+07	5.75E+02
	11/2/2017 4:42	75.6	25.4	3.63E+07	3.47E+02

	11/2/2017 4:42	75.6	25.4	3.63E+07	3.47E+02
	11/2/2017 4:43	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:43	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:44	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:44	75.6	25.2	3.63E+07	3.31E+02
41.59016;-74.8682	11/2/2017 4:45	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:45	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:46	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:46	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:47	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:47	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:48	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:49	75.6	25.2	3.63E+07	3.31E+02
41.59025;-74.8681	11/2/2017 4:50	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:50	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:51	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:51	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:52	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:52	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:53	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:53	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:54	75.6	25.2	3.63E+07	3.31E+02
	11/2/2017 4:54	75.6	25.2	3.63E+07	3.31E+02
41.59021;-74.86821	11/2/2017 4:55	75.6	25.1	3.63E+07	3.24E+02
	11/2/2017 4:55	75.6	25.1	3.63E+07	3.24E+02
	11/2/2017 4:56	75.6	24.1	3.63E+07	2.57E+02
	11/2/2017 4:56	75.6	24.1	3.63E+07	2.57E+02
	11/2/2017 4:57	75.6	23.4	3.63E+07	2.19E+02
	11/2/2017 4:57	75.6	23.4	3.63E+07	2.19E+02
	11/2/2017 4:58	75.6	22.5	3.63E+07	1.78E+02
	11/2/2017 4:58	75.6	22.5	3.63E+07	1.78E+02
	11/2/2017 4:59	75.6	22	3.63E+07	1.58E+02
	11/2/2017 4:59	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:00	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:00	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:01	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:01	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:02	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:02	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:03	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:03	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:04	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:04	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:05	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:05	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:06	75.6	22	3.63E+07	1.58E+02
	11/2/2017 5:06	75.6	22	3.63E+07	1.58E+02

	11/2/2017 7:52	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:53	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:53	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:54	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:54	75.6	21.3	3.63E+07	1.35E+02
41.59018;-74.8683	11/2/2017 7:55	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:55	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:56	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:56	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:57	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:57	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:58	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:58	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:59	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 7:59	75.6	21.3	3.63E+07	1.35E+02
41.59018;-74.86818	11/2/2017 8:00	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:00	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:01	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:01	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:02	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:03	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:04	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:04	75.6	21.3	3.63E+07	1.35E+02
41.59013;-74.86816	11/2/2017 8:05	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:05	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:06	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:06	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:07	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:07	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:08	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:08	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:09	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:09	75.6	21.3	3.63E+07	1.35E+02
41.59016;-74.86812	11/2/2017 8:10	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:10	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:11	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:11	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:12	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:12	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:13	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:13	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:14	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:14	75.6	21.3	3.63E+07	1.35E+02
41.59027;-74.86817	11/2/2017 8:15	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:15	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:16	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 8:16	75.6	21.3	3.63E+07	1.35E+02

41.59012;-74.86819	11/2/2017 11:50	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:50	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:51	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:51	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:52	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:52	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:53	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:53	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:54	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:54	75.6	21.3	3.63E+07	1.35E+02
41.59007;-74.86821	11/2/2017 11:55	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:55	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:56	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:56	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:57	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:57	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:58	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:58	75.6	21.3	3.63E+07	1.35E+02
	11/2/2017 11:59	75.6	21.3	3.63E+07	1.35E+02
Location 3 End	11/2/2017 11:59	75.6	21.3	3.63E+07	1.35E+02

Location 4	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	2556	1.75E+11	3.41E+05
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Location 4 Start	11/2/2017 12:01	78.2	21.3	6.61E+07	1.35E+02	78.36	21.25
	11/2/2017 12:01	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:02	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:02	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:03	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:03	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:04	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:04	78.2	21.3	6.61E+07	1.35E+02		
41.59052;-74.86805	11/2/2017 12:05	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:05	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:06	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:06	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:07	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:07	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:08	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:08	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:09	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:09	78.2	21.3	6.61E+07	1.35E+02		
41.59135;-74.86704	11/2/2017 12:10	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:10	78.2	21.3	6.61E+07	1.35E+02		
	11/2/2017 12:11	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:11	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:12	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:12	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:14	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:14	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:15	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:16	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:16	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:17	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:17	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:18	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:18	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:19	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:19	78.3	21.3	6.76E+07	1.35E+02		
41.59179;-74.86666	11/2/2017 12:20	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:20	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:21	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:21	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:22	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:22	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:23	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:23	78.3	21.3	6.76E+07	1.35E+02		
	11/2/2017 12:24	78.3	21.3	6.76E+07	1.35E+02		

	11/3/2017 7:48	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:48	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:49	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:49	78.3	20.9	6.76E+07	1.23E+02
41.59165;-74.86674	11/3/2017 7:50	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:50	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:51	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:51	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:52	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:52	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:53	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:53	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:54	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:54	78.3	20.9	6.76E+07	1.23E+02
41.59164;-74.8667	11/3/2017 7:55	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:55	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:56	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:56	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:57	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:57	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:59	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 7:59	78.3	20.9	6.76E+07	1.23E+02
41.59167;-74.86669	11/3/2017 8:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:04	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:04	78.3	20.9	6.76E+07	1.23E+02
41.59172;-74.86667	11/3/2017 8:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:09	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:09	78.3	20.9	6.76E+07	1.23E+02
41.59167;-74.86668	11/3/2017 8:10	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:10	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:11	78.3	20.9	6.76E+07	1.23E+02

	11/3/2017 8:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:59	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 8:59	78.3	20.9	6.76E+07	1.23E+02
41.59154;-74.86677	11/3/2017 9:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:04	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:04	78.3	20.9	6.76E+07	1.23E+02
41.59155;-74.86677	11/3/2017 9:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:09	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:09	78.3	20.9	6.76E+07	1.23E+02
41.59157;-74.86676	11/3/2017 9:10	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:10	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:11	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:11	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:12	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:12	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:13	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:13	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:14	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:14	78.3	20.9	6.76E+07	1.23E+02
41.59149;-74.86677	11/3/2017 9:15	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:15	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:16	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:16	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:17	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:17	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:18	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:18	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:19	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:19	78.3	20.9	6.76E+07	1.23E+02
41.59156;-74.86683	11/3/2017 9:20	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:20	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:21	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:21	78.3	20.9	6.76E+07	1.23E+02

	11/3/2017 9:22	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:22	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:23	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:23	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:24	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:24	78.3	20.9	6.76E+07	1.23E+02
41.59147;-74.8668	11/3/2017 9:25	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:25	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:26	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:26	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:27	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:27	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:28	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:28	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:29	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:29	78.3	20.9	6.76E+07	1.23E+02
41.59161;-74.86686	11/3/2017 9:30	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:30	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:31	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:31	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:32	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:32	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:33	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:33	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:34	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:34	78.3	20.9	6.76E+07	1.23E+02
41.59165;-74.86678	11/3/2017 9:35	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:35	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:36	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:36	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:37	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:37	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:38	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:38	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:39	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:39	78.3	20.9	6.76E+07	1.23E+02
41.59165;-74.86676	11/3/2017 9:40	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:41	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:42	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:42	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:43	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:43	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:44	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:44	78.3	20.9	6.76E+07	1.23E+02
41.59158;-74.8668	11/3/2017 9:45	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:45	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:46	78.3	20.9	6.76E+07	1.23E+02

	11/3/2017 9:46	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:47	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:47	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:48	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:48	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:49	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:49	78.3	20.9	6.76E+07	1.23E+02
41.59176;-74.8668	11/3/2017 9:50	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:50	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:51	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:51	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:52	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:52	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:53	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:53	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:54	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:54	78.3	20.9	6.76E+07	1.23E+02
41.59167;-74.86678	11/3/2017 9:55	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:55	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:56	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:56	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:57	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:57	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:59	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 9:59	78.3	20.9	6.76E+07	1.23E+02
41.59163;-74.86675	11/3/2017 10:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:04	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:04	78.3	20.9	6.76E+07	1.23E+02
41.59165;-74.86671	11/3/2017 10:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:09	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:09	78.3	20.9	6.76E+07	1.23E+02

	11/3/2017 10:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:58	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:59	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 10:59	78.3	20.9	6.76E+07	1.23E+02
41.59172;-74.86682	11/3/2017 11:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:00	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:01	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:02	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:03	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:04	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:04	78.3	20.9	6.76E+07	1.23E+02
41.59172;-74.86671	11/3/2017 11:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:05	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:06	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:07	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:08	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:09	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:09	78.3	20.9	6.76E+07	1.23E+02
41.59167;-74.86671	11/3/2017 11:10	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:10	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:11	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:11	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:12	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:12	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:13	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:13	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:14	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:14	78.3	20.9	6.76E+07	1.23E+02
41.59167;-74.86676	11/3/2017 11:15	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:16	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:17	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 11:17	78.3	20.9	6.76E+07	1.23E+02
	11/3/2017 12:16	50.8	45.8	1.20E+05	3.80E+04
	11/3/2017 12:16	50.8	45.8	1.20E+05	3.80E+04
Location 4 End	11/3/2017 12:17	50.8	44.9	1.20E+05	3.09E+04

Location 5	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	206	5.92E+08	5.81E+05
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Location 5 Start	11/3/2017 12:18	64.3	34.5	2.69E+06	2.82E+03	64.58	34.50
	11/3/2017 12:18	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:19	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:19	64.3	34.5	2.69E+06	2.82E+03		
41.58835;-74.86845	11/3/2017 12:20	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:20	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:21	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:21	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:22	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:22	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:23	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:23	64.3	34.5	2.69E+06	2.82E+03		
	11/3/2017 12:24	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:24	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:25	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:25	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:26	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:26	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:27	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:27	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:28	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:28	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:29	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:29	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:30	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:30	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:31	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:31	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:32	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:32	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:33	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:33	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:34	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:34	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:35	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:35	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:36	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:36	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:37	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:37	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:38	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:39	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:40	64.6	34.5	2.88E+06	2.82E+03		
	11/3/2017 12:40	64.6	34.5	2.88E+06	2.82E+03		

	11/3/2017 13:52	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:53	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:53	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:54	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:54	64.6	34.5	2.88E+06	2.82E+03
41.58842;-74.86843	11/3/2017 13:55	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:55	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:56	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:56	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:57	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:57	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:58	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:58	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:59	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 13:59	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 14:00	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 14:00	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 14:01	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 14:01	64.6	34.5	2.88E+06	2.82E+03
	11/3/2017 14:02	64.6	34.5	2.88E+06	2.82E+03
Location 5 End	11/3/2017 14:02	64.6	34.5	2.88E+06	2.82E+03

Location 8	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	126	1.51E+10	5.73E+05
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Start Location 8	11/7/2017 11:06	72.9	38.7	1.95E+07	7.41E+03	80.79	36.58
	11/7/2017 11:07	72.9	38.7	1.95E+07	7.41E+03		
	11/7/2017 11:08	72.9	38.6	1.95E+07	7.24E+03		
	11/7/2017 11:09	75.3	38.6	3.39E+07	7.24E+03		
	11/7/2017 11:10	75.3	38.6	3.39E+07	7.24E+03		
	11/7/2017 11:11	75.3	38.4	3.39E+07	6.92E+03		
	11/7/2017 11:12	75.3	38.3	3.39E+07	6.76E+03		
	11/7/2017 11:13	75.3	38.3	3.39E+07	6.76E+03		
	11/7/2017 11:14	75.3	38.2	3.39E+07	6.61E+03		
	11/7/2017 11:15	76.2	38.1	4.17E+07	6.46E+03		
	11/7/2017 11:16	76.2	38.1	4.17E+07	6.46E+03		
	11/7/2017 11:17	76.2	38.1	4.17E+07	6.46E+03		
	11/7/2017 11:18	76.2	37.7	4.17E+07	5.89E+03		
	11/7/2017 11:19	76.2	37.7	4.17E+07	5.89E+03		
41.58644;-74.87726	11/7/2017 11:20	76.2	37.7	4.17E+07	5.89E+03		
	11/7/2017 11:21	76.2	37.7	4.17E+07	5.89E+03		
	11/7/2017 11:22	78.2	37.7	6.61E+07	5.89E+03		
	11/7/2017 11:23	78.2	37.4	6.61E+07	5.50E+03		
	11/7/2017 11:24	78.2	37.3	6.61E+07	5.37E+03		
41.58639;-74.87728	11/7/2017 11:25	78.2	37.3	6.61E+07	5.37E+03		
	11/7/2017 11:26	81.3	37.3	1.35E+08	5.37E+03		
	11/7/2017 11:27	81.3	37.3	1.35E+08	5.37E+03		
	11/7/2017 11:28	81.3	36.9	1.35E+08	4.90E+03		
	11/7/2017 11:29	81.3	36.9	1.35E+08	4.90E+03		
	11/7/2017 11:30	81.3	36.9	1.35E+08	4.90E+03		
	11/7/2017 11:31	81.3	36.9	1.35E+08	4.90E+03		
	11/7/2017 11:32	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:33	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:34	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:35	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:36	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:37	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:38	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:39	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:40	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:41	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:42	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:43	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:44	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:45	81.3	36.5	1.35E+08	4.47E+03		
41.58649;-74.87735	11/7/2017 11:45	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:45	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:46	81.3	36.5	1.35E+08	4.47E+03		
	11/7/2017 11:47	81.3	36.5	1.35E+08	4.47E+03		

	11/7/2017 11:48	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:49	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:50	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:51	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:52	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:53	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:54	81.3	36.1	1.35E+08	4.07E+03
41.58644;-74.87733	11/7/2017 11:55	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:56	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:57	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:58	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 11:59	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:00	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:01	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:02	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:03	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:04	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:05	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:06	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:07	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:08	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:09	81.3	36.1	1.35E+08	4.07E+03
41.58646;-74.87732	11/7/2017 12:10	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:11	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:12	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:12	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:13	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:14	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:15	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:16	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:17	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:18	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:19	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:19	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:20	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:21	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:22	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:23	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:24	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:25	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:26	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:27	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:28	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:29	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:30	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:31	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:32	81.3	36.1	1.35E+08	4.07E+03

	11/7/2017 12:33	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:34	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:35	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:36	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:37	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:38	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:39	81.3	36.1	1.35E+08	4.07E+03
41.58647;-74.87737	11/7/2017 12:40	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:41	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:42	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:43	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:43	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:43	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:44	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:45	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:46	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:47	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:47	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:48	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:49	81.3	36.1	1.35E+08	4.07E+03
41.58646;-74.87733	11/7/2017 12:50	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:51	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:52	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:53	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:54	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:55	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:56	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:57	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:58	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 12:59	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 13:00	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 13:01	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 13:02	81.3	36.1	1.35E+08	4.07E+03
	11/7/2017 13:03	81.3	36.1	1.35E+08	4.07E+03
End Location 8	11/7/2017 13:04	81.3	36.1	1.35E+08	4.07E+03

Location 6	Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)	CountA:	1113	5.02E+10	4.27E+06
Thiamis-1000	Device	SoundPro RS232(A)	SoundPro RS232(A)	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
Location 6 Start	11/3/2017 15:22	51.2	48.2	1.32E+05	6.61E+04	76.54	35.84
	11/3/2017 15:22	51.2	48.2	1.32E+05	6.61E+04		
	11/3/2017 15:23	51.2	46.4	1.32E+05	4.37E+04		
	11/3/2017 15:24	68.8	39.2	7.59E+06	8.32E+03		
41.57385;-74.87165	11/3/2017 15:25	68.8	39.2	7.59E+06	8.32E+03		
	11/3/2017 15:26	68.8	39.2	7.59E+06	8.32E+03		
	11/3/2017 15:27	68.8	39.2	7.59E+06	8.32E+03		
	11/3/2017 15:27	68.8	39.2	7.59E+06	8.32E+03		
	11/3/2017 15:28	68.8	39.2	7.59E+06	8.32E+03		
	11/3/2017 15:29	68.8	39.2	7.59E+06	8.32E+03		
41.57383;-74.87158	11/3/2017 15:30	68.8	39.2	7.59E+06	8.32E+03		
	11/3/2017 15:31	68.8	38.2	7.59E+06	6.61E+03		
	11/3/2017 15:32	68.8	38.2	7.59E+06	6.61E+03		
	11/3/2017 15:33	68.8	38.2	7.59E+06	6.61E+03		
	11/3/2017 15:34	71.8	38.2	1.51E+07	6.61E+03		
41.57391;-74.87159	11/3/2017 15:35	71.9	38.2	1.55E+07	6.61E+03		
	11/3/2017 15:36	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:37	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:38	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:39	71.9	37.7	1.55E+07	5.89E+03		
41.57391;-74.8715	11/3/2017 15:40	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:41	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:41	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:42	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:43	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:44	71.9	37.7	1.55E+07	5.89E+03		
41.57385;-74.87157	11/3/2017 15:45	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:46	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:47	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:48	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:49	71.9	37.7	1.55E+07	5.89E+03		
41.57382;-74.87154	11/3/2017 15:50	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:51	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:52	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:53	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:54	71.9	37.7	1.55E+07	5.89E+03		
41.57388;-74.87154	11/3/2017 15:55	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:56	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:57	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:58	71.9	37.7	1.55E+07	5.89E+03		
	11/3/2017 15:59	72.2	37.7	1.66E+07	5.89E+03		
41.57381;-74.87151	11/3/2017 16:00	72.2	37.7	1.66E+07	5.89E+03		
	11/3/2017 16:01	76	37.7	3.98E+07	5.89E+03		
	11/3/2017 16:02	76	37.7	3.98E+07	5.89E+03		

	11/3/2017 16:03	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:04	76	37.7	3.98E+07	5.89E+03
41.57381;-74.87156	11/3/2017 16:05	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:06	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:07	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:08	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:09	76	37.7	3.98E+07	5.89E+03
41.5737;-74.87162	11/3/2017 16:10	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:11	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:12	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:13	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:14	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:15	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:16	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:17	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:18	76	37.7	3.98E+07	5.89E+03
	11/3/2017 16:38	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:38	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:39	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:40	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:41	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:42	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:43	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:43	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:43	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:44	76	37.6	3.98E+07	5.75E+03
41.57378;-74.87154	11/3/2017 16:45	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:46	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:46	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:47	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:48	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:49	76	37.6	3.98E+07	5.75E+03
41.57375;-74.8716	11/3/2017 16:50	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:51	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:52	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:53	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:54	76	37.6	3.98E+07	5.75E+03
41.57376;-74.87166	11/3/2017 16:55	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:56	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:57	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:57	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:58	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:59	76	37.6	3.98E+07	5.75E+03
	11/3/2017 16:59	76	37.6	3.98E+07	5.75E+03
41.57372;-74.87167	11/3/2017 17:00	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:01	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:02	76	37.6	3.98E+07	5.75E+03

	11/3/2017 17:03	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:04	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:05	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:05	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:05	76	37.6	3.98E+07	5.75E+03
41.57376;-74.87158	11/3/2017 17:06	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:06	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:07	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:08	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:09	76	37.6	3.98E+07	5.75E+03
41.57375;-74.87154	11/3/2017 17:10	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:11	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:12	76	37.6	3.98E+07	5.75E+03
	11/3/2017 17:13	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:14	76	37.5	3.98E+07	5.62E+03
41.57382;-74.87148	11/3/2017 17:15	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:16	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:17	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:18	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:19	76	37.5	3.98E+07	5.62E+03
41.57373;-74.8715	11/3/2017 17:20	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:21	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:22	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:23	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:24	76	37.5	3.98E+07	5.62E+03
41.5737;-74.87151	11/3/2017 17:25	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:26	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:26	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:27	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:28	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:29	76	37.5	3.98E+07	5.62E+03
41.57357;-74.87151	11/3/2017 17:30	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:31	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:32	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:32	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:33	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:34	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:55	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:56	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:57	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:58	76	37.5	3.98E+07	5.62E+03
	11/3/2017 17:59	76	37.2	3.98E+07	5.25E+03
	11/3/2017 17:59	76	37.2	3.98E+07	5.25E+03
41.57363;-74.87161	11/3/2017 18:00	76	37.2	3.98E+07	5.25E+03
	11/3/2017 18:01	76	36.5	3.98E+07	4.47E+03
	11/3/2017 18:01	76	36.5	3.98E+07	4.47E+03
	11/3/2017 18:02	76	36.5	3.98E+07	4.47E+03

	11/3/2017 18:03	76	36.2	3.98E+07	4.17E+03
	11/3/2017 18:04	76	36.2	3.98E+07	4.17E+03
41.57378;-74.87164	11/3/2017 18:05	76	36	3.98E+07	3.98E+03
	11/3/2017 18:06	76	36	3.98E+07	3.98E+03
	11/3/2017 18:07	76	36	3.98E+07	3.98E+03
	11/3/2017 18:07	76	36	3.98E+07	3.98E+03
	11/3/2017 18:07	76	36	3.98E+07	3.98E+03
	11/3/2017 18:07	76	36	3.98E+07	3.98E+03
	11/3/2017 18:07	76	36	3.98E+07	3.98E+03
	11/3/2017 18:08	76	36	3.98E+07	3.98E+03
	11/3/2017 18:09	76	36	3.98E+07	3.98E+03
41.57381;-74.87165	11/3/2017 18:10	76	36	3.98E+07	3.98E+03
	11/3/2017 18:11	76	36	3.98E+07	3.98E+03
	11/3/2017 18:12	76	36	3.98E+07	3.98E+03
	11/3/2017 18:13	76	36	3.98E+07	3.98E+03
	11/3/2017 18:13	76	36	3.98E+07	3.98E+03
	11/3/2017 18:14	76	36	3.98E+07	3.98E+03
41.57381;-74.87154	11/3/2017 18:15	76	36	3.98E+07	3.98E+03
	11/3/2017 18:16	76	36	3.98E+07	3.98E+03
	11/3/2017 18:17	76	36	3.98E+07	3.98E+03
	11/3/2017 18:17	76	36	3.98E+07	3.98E+03
	11/3/2017 18:17	76	36	3.98E+07	3.98E+03
	11/3/2017 18:17	76	36	3.98E+07	3.98E+03
	11/3/2017 18:18	76	36	3.98E+07	3.98E+03
	11/3/2017 18:19	76	36	3.98E+07	3.98E+03
41.57374;-74.87157	11/3/2017 18:20	76	36	3.98E+07	3.98E+03
	11/3/2017 18:21	76	36	3.98E+07	3.98E+03
	11/3/2017 18:22	76	36	3.98E+07	3.98E+03
	11/3/2017 18:23	76	36	3.98E+07	3.98E+03
	11/3/2017 18:24	76	36	3.98E+07	3.98E+03
41.57375;-74.87164	11/3/2017 18:25	76	36	3.98E+07	3.98E+03
	11/3/2017 18:26	76	36	3.98E+07	3.98E+03
	11/3/2017 18:27	76	36	3.98E+07	3.98E+03
	11/3/2017 18:28	76	36	3.98E+07	3.98E+03
	11/3/2017 18:29	76	36	3.98E+07	3.98E+03
41.57374;-74.87162	11/3/2017 18:30	76	36	3.98E+07	3.98E+03
	11/3/2017 18:31	76	36	3.98E+07	3.98E+03
	11/3/2017 18:32	76	36	3.98E+07	3.98E+03
	11/3/2017 18:33	76	36	3.98E+07	3.98E+03
	11/3/2017 18:34	76	36	3.98E+07	3.98E+03
41.57374;-74.87161	11/3/2017 18:35	76	36	3.98E+07	3.98E+03
	11/3/2017 18:36	76	36	3.98E+07	3.98E+03
	11/3/2017 18:37	76	36	3.98E+07	3.98E+03
	11/3/2017 18:38	76	36	3.98E+07	3.98E+03
	11/3/2017 18:39	76	36	3.98E+07	3.98E+03
41.5737;-74.8716	11/3/2017 18:40	76	36	3.98E+07	3.98E+03
	11/3/2017 18:41	76	36	3.98E+07	3.98E+03
	11/3/2017 18:42	76	36	3.98E+07	3.98E+03

	11/3/2017 18:43	76	36	3.98E+07	3.98E+03
	11/3/2017 18:44	76	36	3.98E+07	3.98E+03
41.5738;-74.8716	11/3/2017 18:45	76	36	3.98E+07	3.98E+03
	11/3/2017 18:46	76	36	3.98E+07	3.98E+03
	11/3/2017 18:47	76	36	3.98E+07	3.98E+03
	11/3/2017 18:48	76	36	3.98E+07	3.98E+03
	11/3/2017 18:49	76	36	3.98E+07	3.98E+03
41.57373;-74.87161	11/3/2017 18:50	76	36	3.98E+07	3.98E+03
	11/3/2017 19:10	76	36	3.98E+07	3.98E+03
	11/3/2017 19:10	76	36	3.98E+07	3.98E+03
	11/3/2017 19:11	76	36	3.98E+07	3.98E+03
	11/3/2017 19:12	76	36	3.98E+07	3.98E+03
	11/3/2017 19:12	76	36	3.98E+07	3.98E+03
	11/3/2017 19:13	76	36	3.98E+07	3.98E+03
	11/3/2017 19:14	76	36	3.98E+07	3.98E+03
41.57378;-74.87159	11/3/2017 19:15	76	36	3.98E+07	3.98E+03
	11/3/2017 19:16	76	36	3.98E+07	3.98E+03
	11/3/2017 19:17	76	36	3.98E+07	3.98E+03
	11/3/2017 19:18	76	36	3.98E+07	3.98E+03
	11/3/2017 19:19	76	36	3.98E+07	3.98E+03
	11/3/2017 19:19	76	36	3.98E+07	3.98E+03
41.5738;-74.8715	11/3/2017 19:20	76	36	3.98E+07	3.98E+03
	11/3/2017 19:21	76	36	3.98E+07	3.98E+03
	11/3/2017 19:22	76	36	3.98E+07	3.98E+03
	11/3/2017 19:23	76	36	3.98E+07	3.98E+03
	11/3/2017 19:24	76	36	3.98E+07	3.98E+03
41.57383;-74.87157	11/3/2017 19:25	76	36	3.98E+07	3.98E+03
	11/3/2017 19:25	76	36	3.98E+07	3.98E+03
	11/3/2017 19:26	76	36	3.98E+07	3.98E+03
	11/3/2017 19:27	76	36	3.98E+07	3.98E+03
	11/3/2017 19:28	76	36	3.98E+07	3.98E+03
	11/3/2017 19:29	76	36	3.98E+07	3.98E+03
41.57383;-74.8716	11/3/2017 19:30	76	36	3.98E+07	3.98E+03
	11/3/2017 19:31	76	36	3.98E+07	3.98E+03
	11/3/2017 19:32	76	36	3.98E+07	3.98E+03
	11/3/2017 19:33	76	36	3.98E+07	3.98E+03
	11/3/2017 19:34	76	36	3.98E+07	3.98E+03
41.57387;-74.87155	11/3/2017 19:35	76	35.9	3.98E+07	3.89E+03
	11/3/2017 19:36	76	35.8	3.98E+07	3.80E+03
	11/3/2017 19:37	76	35.8	3.98E+07	3.80E+03
	11/3/2017 19:38	76	35.8	3.98E+07	3.80E+03
	11/3/2017 19:38	76	35.8	3.98E+07	3.80E+03
	11/3/2017 19:39	76	35.6	3.98E+07	3.63E+03
41.57381;-74.87151	11/3/2017 19:40	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:41	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:42	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:43	76	35.6	3.98E+07	3.63E+03

	11/3/2017 19:44	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:44	76	35.6	3.98E+07	3.63E+03
41.5738;-74.87157	11/3/2017 19:45	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:46	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:47	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:48	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:49	76	35.6	3.98E+07	3.63E+03
41.5738;-74.87151	11/3/2017 19:50	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:51	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:51	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:52	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:53	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:54	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:55	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:56	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:57	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:58	76	35.6	3.98E+07	3.63E+03
	11/3/2017 19:59	76	35.6	3.98E+07	3.63E+03
41.57373;-74.87153	11/3/2017 20:00	76	35.6	3.98E+07	3.63E+03
	11/3/2017 20:01	76	35.6	3.98E+07	3.63E+03
	11/3/2017 20:02	76	35.6	3.98E+07	3.63E+03
	11/3/2017 20:03	76	35.6	3.98E+07	3.63E+03
	11/3/2017 20:04	76	35.6	3.98E+07	3.63E+03
41.57374;-74.87159	11/3/2017 20:05	76	35.6	3.98E+07	3.63E+03
	11/3/2017 20:06	76	35.6	3.98E+07	3.63E+03
	11/3/2017 20:26	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:26	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:26	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:27	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:28	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:29	76	35.3	3.98E+07	3.39E+03
41.57366;-74.8716	11/3/2017 20:30	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:31	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:32	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:33	76	35.3	3.98E+07	3.39E+03
	11/3/2017 20:34	76	35.3	3.98E+07	3.39E+03
41.57389;-74.87169	11/3/2017 20:35	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:36	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:37	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:38	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:39	76	35.2	3.98E+07	3.31E+03
41.57388;-74.87165	11/3/2017 20:40	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:41	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:42	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:43	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:44	76	35.2	3.98E+07	3.31E+03
41.57383;-74.87159	11/3/2017 20:45	76	35.2	3.98E+07	3.31E+03

	11/3/2017 20:46	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:46	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:47	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:48	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:49	76	35.2	3.98E+07	3.31E+03
41.57377;-74.87156	11/3/2017 20:50	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:51	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:52	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:53	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:54	76	35.2	3.98E+07	3.31E+03
41.57378;-74.87159	11/3/2017 20:55	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:56	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:57	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:58	76	35.2	3.98E+07	3.31E+03
	11/3/2017 20:59	76	35.2	3.98E+07	3.31E+03
41.57377;-74.8716	11/3/2017 21:00	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:01	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:02	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:03	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:04	76	35.2	3.98E+07	3.31E+03
41.57374;-74.87163	11/3/2017 21:05	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:06	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:06	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:06	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:07	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:08	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:09	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87162	11/3/2017 21:10	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:11	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:12	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:13	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:14	76	35.2	3.98E+07	3.31E+03
41.57378;-74.87159	11/3/2017 21:15	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:16	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:17	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:18	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:19	76	35.2	3.98E+07	3.31E+03
41.5737;-74.87162	11/3/2017 21:20	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:21	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:22	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:42	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:42	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:42	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:43	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:44	76	35.2	3.98E+07	3.31E+03
41.5738;-74.87144	11/3/2017 21:45	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:46	76	35.2	3.98E+07	3.31E+03

	11/3/2017 21:47	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:48	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:49	76	35.2	3.98E+07	3.31E+03
41.57381;-74.87154	11/3/2017 21:50	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:51	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:52	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:53	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:54	76	35.2	3.98E+07	3.31E+03
41.57371;-74.87158	11/3/2017 21:55	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:56	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:57	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:58	76	35.2	3.98E+07	3.31E+03
	11/3/2017 21:59	76	35.2	3.98E+07	3.31E+03
41.57381;-74.87162	11/3/2017 22:00	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:01	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:02	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:03	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:04	76	35.2	3.98E+07	3.31E+03
41.57384;-74.87162	11/3/2017 22:05	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:06	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:07	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:08	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:09	76	35.2	3.98E+07	3.31E+03
41.57372;-74.87156	11/3/2017 22:10	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:11	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:12	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:13	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:14	76	35.2	3.98E+07	3.31E+03
41.57366;-74.87154	11/3/2017 22:15	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:16	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:17	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:18	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:19	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:19	76	35.2	3.98E+07	3.31E+03
41.57381;-74.87167	11/3/2017 22:20	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:21	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:22	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:23	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:24	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87159	11/3/2017 22:25	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:26	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:26	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:27	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:28	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:29	76	35.2	3.98E+07	3.31E+03
41.57365;-74.87147	11/3/2017 22:30	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:31	76	35.2	3.98E+07	3.31E+03

	11/3/2017 22:32	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:33	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:34	76	35.2	3.98E+07	3.31E+03
41.57343;-74.87118	11/3/2017 22:35	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:36	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:37	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:37	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:37	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:38	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:58	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:58	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:58	76	35.2	3.98E+07	3.31E+03
	11/3/2017 22:59	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:00	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:01	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:02	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:02	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:03	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:03	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:04	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:05	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:06	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:07	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:07	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:08	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:09	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:10	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:11	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:12	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:13	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:14	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:15	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:16	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:17	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:18	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:19	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:20	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:21	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:22	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:23	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:24	76	35.2	3.98E+07	3.31E+03
41.57359;-74.87163	11/3/2017 23:25	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:26	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:27	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:27	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:28	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:29	76	35.2	3.98E+07	3.31E+03

41.57399;-74.87154	11/3/2017 23:30	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:31	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:32	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:33	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:34	76	35.2	3.98E+07	3.31E+03
41.57392;-74.87156	11/3/2017 23:35	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:36	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:37	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:38	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:39	76	35.2	3.98E+07	3.31E+03
41.57411;-74.8712	11/3/2017 23:40	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:41	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:42	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:43	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:44	76	35.2	3.98E+07	3.31E+03
41.57395;-74.87132	11/3/2017 23:45	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:45	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:46	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:47	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:48	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:49	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87161	11/3/2017 23:50	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:51	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:51	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:52	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:53	76	35.2	3.98E+07	3.31E+03
	11/3/2017 23:54	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:14	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:14	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:14	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:14	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:15	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:16	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:18	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:19	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:19	76	35.2	3.98E+07	3.31E+03
41.57383;-74.87154	11/4/2017 0:20	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:22	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:24	76	35.2	3.98E+07	3.31E+03
41.57372;-74.87162	11/4/2017 0:25	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:28	76	35.2	3.98E+07	3.31E+03

	11/4/2017 0:28	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:29	76	35.2	3.98E+07	3.31E+03
41.57372;-74.8716	11/4/2017 0:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:31	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:32	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:34	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:34	76	35.2	3.98E+07	3.31E+03
41.57382;-74.87152	11/4/2017 0:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:36	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:37	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:39	76	35.2	3.98E+07	3.31E+03
41.57383;-74.87157	11/4/2017 0:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:42	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:43	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:44	76	35.2	3.98E+07	3.31E+03
41.57373;-74.87142	11/4/2017 0:45	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:47	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:47	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:49	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87152	11/4/2017 0:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:53	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:54	76	35.2	3.98E+07	3.31E+03
41.57378;-74.8716	11/4/2017 0:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:56	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:58	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:59	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:59	76	35.2	3.98E+07	3.31E+03
	11/4/2017 0:59	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:00	76	35.2	3.98E+07	3.31E+03
41.57374;-74.87154	11/4/2017 1:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:03	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:04	76	35.2	3.98E+07	3.31E+03
41.57375;-74.87154	11/4/2017 1:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:07	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:09	76	35.2	3.98E+07	3.31E+03

41.57367;-74.87158	11/4/2017 1:10	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:31	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:32	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:34	76	35.2	3.98E+07	3.31E+03
41.57379;-74.87164	11/4/2017 1:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:36	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:37	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:39	76	35.2	3.98E+07	3.31E+03
41.57374;-74.87151	11/4/2017 1:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:42	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:43	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:44	76	35.2	3.98E+07	3.31E+03
41.57377;-74.87153	11/4/2017 1:45	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:47	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:49	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87159	11/4/2017 1:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:53	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:54	76	35.2	3.98E+07	3.31E+03
41.57372;-74.87151	11/4/2017 1:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:56	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:58	76	35.2	3.98E+07	3.31E+03
	11/4/2017 1:59	76	35.2	3.98E+07	3.31E+03
41.57377;-74.8716	11/4/2017 2:00	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:03	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:04	76	35.2	3.98E+07	3.31E+03
41.57379;-74.87167	11/4/2017 2:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:07	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:09	76	35.2	3.98E+07	3.31E+03

41.57375;-74.8716	11/4/2017 2:10	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:11	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:12	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:13	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:14	76	35.2	3.98E+07	3.31E+03
41.5738;-74.8716	11/4/2017 2:15	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:16	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:18	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:19	76	35.2	3.98E+07	3.31E+03
41.57382;-74.87159	11/4/2017 2:20	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:22	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:24	76	35.2	3.98E+07	3.31E+03
41.57381;-74.87159	11/4/2017 2:25	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:47	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:49	76	35.2	3.98E+07	3.31E+03
41.57347;-74.87124	11/4/2017 2:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:53	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:54	76	35.2	3.98E+07	3.31E+03
41.57369;-74.87142	11/4/2017 2:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:56	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:58	76	35.2	3.98E+07	3.31E+03
	11/4/2017 2:59	76	35.2	3.98E+07	3.31E+03
41.57364;-74.87158	11/4/2017 3:00	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:00	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:03	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:04	76	35.2	3.98E+07	3.31E+03
41.57359;-74.87175	11/4/2017 3:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:07	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:09	76	35.2	3.98E+07	3.31E+03
41.57381;-74.87167	11/4/2017 3:10	76	35.2	3.98E+07	3.31E+03

	11/4/2017 3:11	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:12	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:13	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:13	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:14	76	35.2	3.98E+07	3.31E+03
41.57373;-74.87152	11/4/2017 3:15	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:16	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:18	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:19	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:20	76	35.2	3.98E+07	3.31E+03
41.57372;-74.87164	11/4/2017 3:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:22	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:24	76	35.2	3.98E+07	3.31E+03
41.57375;-74.87157	11/4/2017 3:25	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:28	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:29	76	35.2	3.98E+07	3.31E+03
41.5737;-74.87173	11/4/2017 3:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:31	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:32	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:34	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87164	11/4/2017 3:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:36	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:37	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:39	76	35.2	3.98E+07	3.31E+03
41.57379;-74.87155	11/4/2017 3:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 3:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:03	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:04	76	35.2	3.98E+07	3.31E+03
41.5737;-74.87159	11/4/2017 4:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:07	76	35.2	3.98E+07	3.31E+03

	11/4/2017 4:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:09	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:10	76	35.2	3.98E+07	3.31E+03
41.57374;-74.87144	11/4/2017 4:10	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:11	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:12	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:13	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:14	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87158	11/4/2017 4:15	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:15	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:16	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:16	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:18	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:19	76	35.2	3.98E+07	3.31E+03
41.57385;-74.8716	11/4/2017 4:20	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:22	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:24	76	35.2	3.98E+07	3.31E+03
41.5738;-74.87164	11/4/2017 4:25	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:28	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:29	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:29	76	35.2	3.98E+07	3.31E+03
41.57381;-74.87162	11/4/2017 4:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:31	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:32	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:34	76	35.2	3.98E+07	3.31E+03
41.57379;-74.87157	11/4/2017 4:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:36	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:37	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:39	76	35.2	3.98E+07	3.31E+03
41.57393;-74.87164	11/4/2017 4:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:42	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:43	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:44	76	35.2	3.98E+07	3.31E+03
41.57382;-74.87165	11/4/2017 4:45	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:47	76	35.2	3.98E+07	3.31E+03

	11/4/2017 4:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:49	76	35.2	3.98E+07	3.31E+03
41.57383;-74.87166	11/4/2017 4:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:53	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:54	76	35.2	3.98E+07	3.31E+03
41.5742;-74.87218	11/4/2017 4:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:56	76	35.2	3.98E+07	3.31E+03
	11/4/2017 4:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:18	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:19	76	35.2	3.98E+07	3.31E+03
41.57409;-74.87186	11/4/2017 5:20	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:22	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:24	76	35.2	3.98E+07	3.31E+03
41.57387;-74.87172	11/4/2017 5:25	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:28	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:29	76	35.2	3.98E+07	3.31E+03
41.57382;-74.87167	11/4/2017 5:30	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:31	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:31	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:32	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:34	76	35.2	3.98E+07	3.31E+03
41.57387;-74.87168	11/4/2017 5:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:36	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:37	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:39	76	35.2	3.98E+07	3.31E+03
41.57383;-74.87167	11/4/2017 5:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:42	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:43	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:44	76	35.2	3.98E+07	3.31E+03
41.57388;-74.87177	11/4/2017 5:45	76	35.2	3.98E+07	3.31E+03

	11/4/2017 5:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:47	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:49	76	35.2	3.98E+07	3.31E+03
41.57398;-74.87171	11/4/2017 5:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:53	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:54	76	35.2	3.98E+07	3.31E+03
41.57379;-74.87163	11/4/2017 5:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:56	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:58	76	35.2	3.98E+07	3.31E+03
	11/4/2017 5:59	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:00	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:03	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:04	76	35.2	3.98E+07	3.31E+03
41.57374;-74.87162	11/4/2017 6:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:07	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:09	76	35.2	3.98E+07	3.31E+03
41.57383;-74.87161	11/4/2017 6:10	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:10	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:11	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:12	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:13	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:33	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:34	76	35.2	3.98E+07	3.31E+03
41.57353;-74.87139	11/4/2017 6:35	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:36	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:37	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:38	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:39	76	35.2	3.98E+07	3.31E+03
41.5737;-74.87159	11/4/2017 6:40	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:41	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:42	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:43	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:43	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:43	76	35.2	3.98E+07	3.31E+03

	11/4/2017 6:44	76	35.2	3.98E+07	3.31E+03
41.57381;-74.8716	11/4/2017 6:45	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:46	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:47	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:48	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:49	76	35.2	3.98E+07	3.31E+03
41.57376;-74.87163	11/4/2017 6:50	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:51	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:52	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:53	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:54	76	35.2	3.98E+07	3.31E+03
41.57375;-74.8716	11/4/2017 6:55	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:56	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:57	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:58	76	35.2	3.98E+07	3.31E+03
	11/4/2017 6:59	76	35.2	3.98E+07	3.31E+03
41.57386;-74.8716	11/4/2017 7:00	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:01	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:02	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:03	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:04	76	35.2	3.98E+07	3.31E+03
41.5739;-74.87155	11/4/2017 7:05	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:06	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:07	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:08	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:09	76	35.2	3.98E+07	3.31E+03
41.57384;-74.87157	11/4/2017 7:10	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:11	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:12	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:13	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:14	76	35.2	3.98E+07	3.31E+03
41.57382;-74.87147	11/4/2017 7:15	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:16	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:17	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:18	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:19	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:19	76	35.2	3.98E+07	3.31E+03
41.57393;-74.87142	11/4/2017 7:20	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:21	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:22	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:23	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:24	76	35.2	3.98E+07	3.31E+03
41.57384;-74.8716	11/4/2017 7:25	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:26	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:27	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:28	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:29	76	35.2	3.98E+07	3.31E+03

	11/4/2017 7:49	76	35.2	3.98E+07	3.31E+03
	11/4/2017 7:49	78.2	35.2	6.61E+07	3.31E+03
41.5732;-74.87151	11/4/2017 7:50	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:51	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:52	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:53	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:54	78.2	35.2	6.61E+07	3.31E+03
41.57321;-74.87128	11/4/2017 7:55	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:56	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:57	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:58	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 7:59	78.2	35.2	6.61E+07	3.31E+03
41.5735;-74.87147	11/4/2017 8:00	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:01	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:03	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:04	78.2	35.2	6.61E+07	3.31E+03
41.5736;-74.87147	11/4/2017 8:05	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:06	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:07	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:08	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:09	78.2	35.2	6.61E+07	3.31E+03
41.57371;-74.87153	11/4/2017 8:10	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:11	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:12	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:13	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:14	78.2	35.2	6.61E+07	3.31E+03
41.57378;-74.87154	11/4/2017 8:15	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:16	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:17	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:18	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:19	78.2	35.2	6.61E+07	3.31E+03
41.57376;-74.87148	11/4/2017 8:20	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:21	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:22	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:23	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:23	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:24	78.2	35.2	6.61E+07	3.31E+03
41.57369;-74.87148	11/4/2017 8:25	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:26	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:27	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:27	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:28	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:29	78.2	35.2	6.61E+07	3.31E+03
41.57372;-74.87154	11/4/2017 8:30	78.2	35.2	6.61E+07	3.31E+03

	11/4/2017 8:30	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:31	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:32	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:33	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:34	78.2	35.2	6.61E+07	3.31E+03
41.5737;-74.87152	11/4/2017 8:35	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:36	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:37	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:38	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:39	78.2	35.2	6.61E+07	3.31E+03
41.57376;-74.87157	11/4/2017 8:40	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:41	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:42	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:43	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 8:44	78.2	35.2	6.61E+07	3.31E+03
41.57385;-74.87154	11/4/2017 8:45	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:05	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:05	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:05	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:06	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:07	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:08	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:09	78.2	35.2	6.61E+07	3.31E+03
41.57369;-74.87171	11/4/2017 9:10	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:11	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:12	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:13	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:14	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:14	78.2	35.2	6.61E+07	3.31E+03
41.57374;-74.8716	11/4/2017 9:15	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:16	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:17	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:18	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:19	78.2	35.2	6.61E+07	3.31E+03
41.57377;-74.8716	11/4/2017 9:20	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:21	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:22	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:23	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:24	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:25	78.2	35.2	6.61E+07	3.31E+03
41.57367;-74.87165	11/4/2017 9:26	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:26	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:27	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:28	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:29	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:30	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:31	78.2	35.2	6.61E+07	3.31E+03

	11/4/2017 9:32	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:33	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:34	78.2	35.2	6.61E+07	3.31E+03
41.57372;-74.87161	11/4/2017 9:35	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:36	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:37	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:38	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:38	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:38	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:39	78.2	35.2	6.61E+07	3.31E+03
41.57368;-74.87163	11/4/2017 9:40	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:41	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:42	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:43	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:44	78.2	35.2	6.61E+07	3.31E+03
41.57369;-74.87162	11/4/2017 9:45	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:46	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:47	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:48	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:49	78.2	35.2	6.61E+07	3.31E+03
41.57366;-74.8716	11/4/2017 9:50	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:51	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:51	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:52	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:53	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:54	78.2	35.2	6.61E+07	3.31E+03
41.57377;-74.87157	11/4/2017 9:55	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:56	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:57	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:57	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:58	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 9:59	78.2	35.2	6.61E+07	3.31E+03
41.57351;-74.87161	11/4/2017 10:00	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:01	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:21	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:21	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:21	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:22	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:23	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:23	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:24	78.2	35.2	6.61E+07	3.31E+03
41.5736;-74.87154	11/4/2017 10:25	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:26	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:27	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:28	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:29	78.2	35.2	6.61E+07	3.31E+03
41.57373;-74.87157	11/4/2017 10:30	78.2	35.2	6.61E+07	3.31E+03

	11/4/2017 10:31	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:32	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:33	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:34	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:34	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:34	78.2	35.2	6.61E+07	3.31E+03
41.57369;-74.87153	11/4/2017 10:35	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:36	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:37	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:38	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:39	78.2	35.2	6.61E+07	3.31E+03
41.57376;-74.87165	11/4/2017 10:40	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:41	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:42	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:43	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:44	78.2	35.2	6.61E+07	3.31E+03
41.57383;-74.87157	11/4/2017 10:45	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:46	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:47	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:47	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:47	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:48	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:48	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:49	78.2	35.2	6.61E+07	3.31E+03
41.57375;-74.87157	11/4/2017 10:50	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:51	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:52	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:53	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:54	78.2	35.2	6.61E+07	3.31E+03
41.57376;-74.87157	11/4/2017 10:55	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:56	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:57	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:58	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 10:59	78.2	35.2	6.61E+07	3.31E+03
41.57383;-74.8716	11/4/2017 11:00	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:01	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:03	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:04	78.2	35.2	6.61E+07	3.31E+03
41.57376;-74.87159	11/4/2017 11:05	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:06	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:06	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:07	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:08	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:09	78.2	35.2	6.61E+07	3.31E+03
41.57376;-74.87164	11/4/2017 11:10	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:11	78.2	35.2	6.61E+07	3.31E+03

	11/4/2017 11:12	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:12	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:13	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:13	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:14	78.2	35.2	6.61E+07	3.31E+03
41.57378;-74.8716	11/4/2017 11:15	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:16	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:37	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:37	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:38	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:39	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:39	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:40	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:40	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:40	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:41	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:42	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:43	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:44	78.2	35.2	6.61E+07	3.31E+03
41.57513;-74.87103	11/4/2017 11:45	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:46	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:47	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:48	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:49	78.2	35.2	6.61E+07	3.31E+03
41.57399;-74.8715	11/4/2017 11:50	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:51	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:52	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:53	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:54	78.2	35.2	6.61E+07	3.31E+03
41.57357;-74.87163	11/4/2017 11:55	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:56	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:57	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:58	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 11:59	78.2	35.2	6.61E+07	3.31E+03
41.57382;-74.87146	11/4/2017 12:00	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:01	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:03	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:04	78.2	35.2	6.61E+07	3.31E+03
41.57398;-74.87151	11/4/2017 12:05	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:06	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:07	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:08	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:09	78.2	35.2	6.61E+07	3.31E+03
41.5742;-74.87159	11/4/2017 12:10	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:11	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:12	78.2	35.2	6.61E+07	3.31E+03

	11/4/2017 12:13	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:14	78.2	35.2	6.61E+07	3.31E+03
41.57407;-74.8716	11/4/2017 12:15	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:16	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:17	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:18	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:19	78.2	35.2	6.61E+07	3.31E+03
41.57373;-74.87162	11/4/2017 12:20	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:21	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:22	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:23	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:24	78.2	35.2	6.61E+07	3.31E+03
41.57371;-74.87158	11/4/2017 12:25	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:26	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:27	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:28	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:29	78.2	35.2	6.61E+07	3.31E+03
41.5742;-74.87183	11/4/2017 12:30	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:31	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:32	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:52	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:52	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:53	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:54	78.2	35.2	6.61E+07	3.31E+03
41.57367;-74.87154	11/4/2017 12:55	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:56	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:57	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:58	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 12:59	78.2	35.2	6.61E+07	3.31E+03
41.57375;-74.87158	11/4/2017 13:00	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 13:01	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 13:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 13:02	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 13:03	78.2	35.2	6.61E+07	3.31E+03
	11/4/2017 13:04	78.2	35.2	6.61E+07	3.31E+03

Round 2

Location 1		Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.001	4320	0	7020	0	9720	0	12420	0
Model Number	8530	1680	0.001	4380	0	7080	0	9780	0	12480	0
Serial Number	8530141712	1740	0.001	4440	0	7140	0	9840	0	12540	0
Firmware Version	3.7	1800	0.001	4500	0	7200	0	9900	0	12600	0
Calibration Date	8/15/2017	1860	0.001	4560	0	7260	0	9960	0	12660	0
Test Name	MANUAL_006	1920	0.001	4620	0	7320	0	10020	0	12720	0
Test Start Time	2:14:00 PM	1980	0.001	4680	0	7380	0	10080	0	12780	0
Test Start Date	4/9/2018	2040	0	4740	0	7440	0	10140	0	12840	0
Test Length [D:H:M]	0:22:04	2100	0	4800	0	7500	0	10200	0	12900	0
Test Interval [M:S]	1:00	2160	0	4860	0	7560	0	10260	0	12960	0
Mass Average [mg/m3]	0.003	2220	0	4920	0	7620	0	10320	0	13020	0
Mass Minimum [mg/m3]	0	2280	0	4980	0	7680	0	10380	0	13080	0
Mass Maximum [mg/m3]	0.005	2340	0	5040	0	7740	0	10440	0	13140	0
Mass TWA [mg/m3]	0	2400	0	5100	0	7800	0	10500	0	13200	0.001
Photometric User Cal	1	2460	0	5160	0	7860	0	10560	0	13260	0.001
Flow User Cal	0	2520	0	5220	0	7920	0	10620	0	13320	0.001
Errors		2580	0	5280	0	7980	0	10680	0	13380	0.001
Number of Samples	1183	2640	0	5340	0	8040	0	10740	0	13440	0.001
Elapsed Time [s]	Mass [mg/m3]	2700	0	5400	0	8100	0	10800	0	13500	0.001
60	0.001	2760	0	5460	0	8160	0	10860	0	13560	0.001
120	0.001	2820	0	5520	0	8220	0	10920	0	13620	0.001
180	0.001	2880	0	5580	0	8280	0	10980	0	13680	0.001
240	0.001	2940	0	5640	0	8340	0	11040	0	13740	0.001
300	0.001	3000	0	5700	0	8400	0	11100	0	13800	0.001
360	0.001	3060	0	5760	0	8460	0	11160	0	13860	0.001
420	0.001	3120	0	5820	0	8520	0	11220	0	13920	0.001
480	0.001	3180	0	5880	0	8580	0	11280	0	13980	0.001
540	0.001	3240	0	5940	0	8640	0	11340	0	14040	0.001
600	0.001	3300	0	6000	0	8700	0	11400	0	14100	0.001
660	0.001	3360	0	6060	0	8760	0	11460	0	14160	0.001
720	0.001	3420	0	6120	0	8820	0	11520	0	14220	0.001
780	0.001	3480	0	6180	0	8880	0	11580	0	14280	0.001
840	0.001	3540	0	6240	0	8940	0	11640	0	14340	0.001
900	0.001	3600	0	6300	0	9000	0	11700	0	14400	0.001
960	0.001	3660	0	6360	0	9060	0	11760	0	14460	0.001
1020	0.001	3720	0	6420	0	9120	0	11820	0	14520	0.001
1080	0.001	3780	0	6480	0	9180	0	11880	0	14580	0.001
1140	0.001	3840	0	6540	0	9240	0	11940	0	14640	0.001
1200	0.001	3900	0	6600	0	9300	0	12000	0	14700	0.001
1260	0.001	3960	0	6660	0	9360	0	12060	0	14760	0.001
1320	0.001	4020	0	6720	0	9420	0	12120	0	14820	0.001
1380	0.001	4080	0	6780	0	9480	0	12180	0	14880	0.001
1440	0.001	4140	0	6840	0	9540	0	12240	0	14940	0.001
1500	0.001	4200	0	6900	0	9600	0	12300	0	15000	0.001
1560	0.001	4260	0	6960	0	9660	0	12360	0	15060	0.001

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
15120	0.001	17880	0.001	20640	0.001	23400	0.003	26160	0.004	28920	0.004
15180	0.001	17940	0.001	20700	0.001	23460	0.003	26220	0.003	28980	0.004
15240	0.001	18000	0.001	20760	0.001	23520	0.003	26280	0.003	29040	0.004
15300	0.001	18060	0.001	20820	0.001	23580	0.003	26340	0.003	29100	0.004
15360	0.001	18120	0.001	20880	0.001	23640	0.003	26400	0.003	29160	0.004
15420	0.001	18180	0.001	20940	0.001	23700	0.003	26460	0.003	29220	0.003
15480	0.001	18240	0.001	21000	0.001	23760	0.003	26520	0.003	29280	0.004
15540	0.001	18300	0.001	21060	0.002	23820	0.003	26580	0.003	29340	0.004
15600	0.001	18360	0.001	21120	0.002	23880	0.003	26640	0.003	29400	0.004
15660	0.001	18420	0.001	21180	0.002	23940	0.003	26700	0.003	29460	0.004
15720	0.001	18480	0.001	21240	0.002	24000	0.003	26760	0.003	29520	0.004
15780	0.001	18540	0.001	21300	0.002	24060	0.003	26820	0.003	29580	0.003
15840	0.001	18600	0.001	21360	0.002	24120	0.003	26880	0.003	29640	0.003
15900	0.001	18660	0.001	21420	0.002	24180	0.003	26940	0.003	29700	0.004
15960	0.001	18720	0.001	21480	0.002	24240	0.003	27000	0.003	29760	0.004
16020	0.001	18780	0.001	21540	0.002	24300	0.003	27060	0.003	29820	0.003
16080	0.001	18840	0.001	21600	0.002	24360	0.003	27120	0.003	29880	0.004
16140	0.001	18900	0.001	21660	0.002	24420	0.003	27180	0.003	29940	0.004
16200	0.001	18960	0.001	21720	0.002	24480	0.003	27240	0.004	30000	0.004
16260	0.001	19020	0.001	21780	0.002	24540	0.003	27300	0.004	30060	0.004
16320	0.001	19080	0.001	21840	0.002	24600	0.003	27360	0.004	30120	0.004
16380	0.001	19140	0.001	21900	0.002	24660	0.003	27420	0.003	30180	0.004
16440	0.001	19200	0.001	21960	0.002	24720	0.003	27480	0.003	30240	0.003
16500	0.001	19260	0.001	22020	0.002	24780	0.003	27540	0.003	30300	0.004
16560	0.001	19320	0.001	22080	0.002	24840	0.003	27600	0.003	30360	0.004
16620	0.001	19380	0.001	22140	0.002	24900	0.003	27660	0.003	30420	0.004
16680	0.001	19440	0.001	22200	0.002	24960	0.003	27720	0.004	30480	0.004
16740	0.001	19500	0.001	22260	0.002	25020	0.003	27780	0.003	30540	0.004
16800	0.001	19560	0.001	22320	0.002	25080	0.003	27840	0.003	30600	0.004
16860	0.001	19620	0.001	22380	0.002	25140	0.003	27900	0.003	30660	0.004
16920	0.001	19680	0.001	22440	0.002	25200	0.003	27960	0.003	30720	0.004
16980	0.001	19740	0.001	22500	0.002	25260	0.003	28020	0.003	30780	0.004
17040	0.001	19800	0.001	22560	0.002	25320	0.003	28080	0.003	30840	0.004
17100	0.001	19860	0.001	22620	0.002	25380	0.003	28140	0.004	30900	0.004
17160	0.001	19920	0.001	22680	0.002	25440	0.003	28200	0.004	30960	0.004
17220	0.001	19980	0.001	22740	0.002	25500	0.003	28260	0.004	31020	0.004
17280	0.001	20040	0.001	22800	0.002	25560	0.003	28320	0.004	31080	0.004
17340	0.001	20100	0.001	22860	0.002	25620	0.004	28380	0.003	31140	0.004
17400	0.001	20160	0.001	22920	0.002	25680	0.003	28440	0.003	31200	0.004
17460	0.001	20220	0.001	22980	0.002	25740	0.003	28500	0.004	31260	0.004
17520	0.001	20280	0.001	23040	0.002	25800	0.004	28560	0.004	31320	0.004
17580	0.001	20340	0.001	23100	0.002	25860	0.003	28620	0.003	31380	0.004
17640	0.001	20400	0.001	23160	0.002	25920	0.004	28680	0.004	31440	0.004
17700	0.001	20460	0.001	23220	0.003	25980	0.004	28740	0.003	31500	0.004
17760	0.001	20520	0.001	23280	0.003	26040	0.004	28800	0.004	31560	0.004
17820	0.001	20580	0.001	23340	0.003	26100	0.004	28860	0.004	31620	0.004

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
31680	0.004	34440	0.005	37200	0.005	39960	0.005	42720	0.004	45480	0.003
31740	0.004	34500	0.005	37260	0.005	40020	0.005	42780	0.004	45540	0.003
31800	0.004	34560	0.005	37320	0.005	40080	0.005	42840	0.004	45600	0.003
31860	0.004	34620	0.005	37380	0.005	40140	0.005	42900	0.004	45660	0.003
31920	0.004	34680	0.005	37440	0.005	40200	0.005	42960	0.004	45720	0.003
31980	0.004	34740	0.005	37500	0.005	40260	0.005	43020	0.004	45780	0.003
32040	0.004	34800	0.005	37560	0.005	40320	0.005	43080	0.004	45840	0.003
32100	0.004	34860	0.005	37620	0.005	40380	0.005	43140	0.004	45900	0.003
32160	0.004	34920	0.005	37680	0.005	40440	0.005	43200	0.004	45960	0.003
32220	0.004	34980	0.005	37740	0.005	40500	0.005	43260	0.003	46020	0.003
32280	0.004	35040	0.005	37800	0.005	40560	0.005	43320	0.003	46080	0.003
32340	0.004	35100	0.005	37860	0.005	40620	0.005	43380	0.003	46140	0.003
32400	0.004	35160	0.005	37920	0.005	40680	0.005	43440	0.003	46200	0.003
32460	0.004	35220	0.005	37980	0.005	40740	0.005	43500	0.003	46260	0.003
32520	0.004	35280	0.005	38040	0.005	40800	0.005	43560	0.003	46320	0.003
32580	0.005	35340	0.005	38100	0.005	40860	0.004	43620	0.003	46380	0.003
32640	0.004	35400	0.005	38160	0.005	40920	0.004	43680	0.003	46440	0.003
32700	0.004	35460	0.005	38220	0.005	40980	0.004	43740	0.003	46500	0.003
32760	0.004	35520	0.005	38280	0.005	41040	0.004	43800	0.003	46560	0.003
32820	0.004	35580	0.005	38340	0.005	41100	0.004	43860	0.003	46620	0.003
32880	0.004	35640	0.005	38400	0.005	41160	0.005	43920	0.003	46680	0.003
32940	0.004	35700	0.005	38460	0.005	41220	0.005	43980	0.003	46740	0.003
33000	0.004	35760	0.005	38520	0.005	41280	0.004	44040	0.003	46800	0.003
33060	0.004	35820	0.005	38580	0.005	41340	0.004	44100	0.003	46860	0.003
33120	0.004	35880	0.005	38640	0.005	41400	0.004	44160	0.003	46920	0.003
33180	0.005	35940	0.005	38700	0.005	41460	0.004	44220	0.003	46980	0.003
33240	0.004	36000	0.005	38760	0.005	41520	0.004	44280	0.003	47040	0.003
33300	0.004	36060	0.005	38820	0.005	41580	0.004	44340	0.003	47100	0.003
33360	0.004	36120	0.005	38880	0.005	41640	0.004	44400	0.003	47160	0.003
33420	0.004	36180	0.005	38940	0.005	41700	0.004	44460	0.003	47220	0.003
33480	0.004	36240	0.005	39000	0.005	41760	0.004	44520	0.003	47280	0.003
33540	0.004	36300	0.005	39060	0.005	41820	0.004	44580	0.003	47340	0.003
33600	0.004	36360	0.005	39120	0.005	41880	0.004	44640	0.003	47400	0.003
33660	0.005	36420	0.005	39180	0.005	41940	0.004	44700	0.003	47460	0.003
33720	0.004	36480	0.005	39240	0.005	42000	0.004	44760	0.003	47520	0.003
33780	0.004	36540	0.005	39300	0.005	42060	0.004	44820	0.003	47580	0.003
33840	0.004	36600	0.005	39360	0.005	42120	0.004	44880	0.003	47640	0.003
33900	0.005	36660	0.005	39420	0.005	42180	0.004	44940	0.003	47700	0.003
33960	0.005	36720	0.005	39480	0.005	42240	0.004	45000	0.003	47760	0.003
34020	0.005	36780	0.005	39540	0.005	42300	0.004	45060	0.003	47820	0.003
34080	0.005	36840	0.005	39600	0.005	42360	0.004	45120	0.003	47880	0.003
34140	0.005	36900	0.005	39660	0.005	42420	0.004	45180	0.003	47940	0.003
34200	0.005	36960	0.005	39720	0.005	42480	0.004	45240	0.003	48000	0.003
34260	0.005	37020	0.005	39780	0.005	42540	0.004	45300	0.003	48060	0.003
34320	0.005	37080	0.005	39840	0.005	42600	0.004	45360	0.003	48120	0.003
34380	0.005	37140	0.005	39900	0.005	42660	0.004	45420	0.003	48180	0.003

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
48240	0.003	51000	0.003	53760	0.003	56520	0.004	59280	0.004	62040	0.004
48300	0.003	51060	0.003	53820	0.003	56580	0.004	59340	0.004	62100	0.004
48360	0.003	51120	0.003	53880	0.003	56640	0.003	59400	0.004	62160	0.004
48420	0.003	51180	0.003	53940	0.003	56700	0.003	59460	0.003	62220	0.004
48480	0.003	51240	0.003	54000	0.003	56760	0.003	59520	0.003	62280	0.004
48540	0.003	51300	0.003	54060	0.003	56820	0.003	59580	0.003	62340	0.004
48600	0.003	51360	0.003	54120	0.003	56880	0.004	59640	0.003	62400	0.004
48660	0.003	51420	0.003	54180	0.003	56940	0.003	59700	0.004	62460	0.004
48720	0.003	51480	0.003	54240	0.003	57000	0.003	59760	0.003	62520	0.004
48780	0.003	51540	0.003	54300	0.003	57060	0.003	59820	0.003	62580	0.004
48840	0.003	51600	0.003	54360	0.003	57120	0.004	59880	0.003	62640	0.004
48900	0.003	51660	0.003	54420	0.003	57180	0.004	59940	0.003	62700	0.004
48960	0.003	51720	0.003	54480	0.003	57240	0.004	60000	0.003	62760	0.004
49020	0.003	51780	0.003	54540	0.003	57300	0.004	60060	0.003	62820	0.004
49080	0.003	51840	0.003	54600	0.003	57360	0.004	60120	0.004	62880	0.004
49140	0.003	51900	0.003	54660	0.003	57420	0.004	60180	0.004	62940	0.004
49200	0.003	51960	0.003	54720	0.003	57480	0.004	60240	0.003	63000	0.004
49260	0.003	52020	0.003	54780	0.004	57540	0.003	60300	0.003	63060	0.004
49320	0.003	52080	0.003	54840	0.004	57600	0.004	60360	0.003	63120	0.004
49380	0.003	52140	0.003	54900	0.003	57660	0.004	60420	0.004	63180	0.004
49440	0.003	52200	0.003	54960	0.003	57720	0.003	60480	0.004	63240	0.004
49500	0.003	52260	0.003	55020	0.003	57780	0.003	60540	0.004	63300	0.004
49560	0.003	52320	0.003	55080	0.003	57840	0.003	60600	0.004	63360	0.004
49620	0.003	52380	0.003	55140	0.004	57900	0.004	60660	0.004	63420	0.004
49680	0.003	52440	0.003	55200	0.004	57960	0.003	60720	0.004	63480	0.004
49740	0.003	52500	0.003	55260	0.004	58020	0.004	60780	0.004	63540	0.004
49800	0.003	52560	0.003	55320	0.004	58080	0.004	60840	0.004	63600	0.004
49860	0.003	52620	0.003	55380	0.004	58140	0.003	60900	0.004	63660	0.004
49920	0.003	52680	0.003	55440	0.003	58200	0.003	60960	0.004	63720	0.004
49980	0.003	52740	0.003	55500	0.004	58260	0.003	61020	0.004	63780	0.004
50040	0.003	52800	0.003	55560	0.003	58320	0.003	61080	0.004	63840	0.004
50100	0.003	52860	0.003	55620	0.004	58380	0.004	61140	0.004	63900	0.004
50160	0.003	52920	0.003	55680	0.003	58440	0.004	61200	0.004	63960	0.004
50220	0.003	52980	0.003	55740	0.003	58500	0.004	61260	0.004	64020	0.004
50280	0.003	53040	0.003	55800	0.003	58560	0.004	61320	0.004	64080	0.004
50340	0.003	53100	0.003	55860	0.003	58620	0.004	61380	0.004	64140	0.004
50400	0.003	53160	0.003	55920	0.003	58680	0.004	61440	0.004	64200	0.004
50460	0.003	53220	0.003	55980	0.003	58740	0.004	61500	0.004	64260	0.004
50520	0.003	53280	0.003	56040	0.003	58800	0.004	61560	0.004	64320	0.004
50580	0.003	53340	0.003	56100	0.003	58860	0.004	61620	0.004	64380	0.004
50640	0.003	53400	0.003	56160	0.003	58920	0.004	61680	0.004	64440	0.004
50700	0.003	53460	0.003	56220	0.003	58980	0.004	61740	0.004	64500	0.004
50760	0.003	53520	0.003	56280	0.003	59040	0.004	61800	0.004	64560	0.004
50820	0.003	53580	0.003	56340	0.003	59100	0.004	61860	0.004	64620	0.004
50880	0.003	53640	0.003	56400	0.003	59160	0.004	61920	0.004	64680	0.004
50940	0.003	53700	0.003	56460	0.003	59220	0.004	61980	0.004	64740	0.004

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
64800	0.004	67560	0.003	70320	0.003
64860	0.004	67620	0.003	70380	0.003
64920	0.004	67680	0.003	70440	0.003
64980	0.004	67740	0.003	70500	0.003
65040	0.004	67800	0.003	70560	0.003
65100	0.004	67860	0.003	70620	0.003
65160	0.004	67920	0.003	70680	0.003
65220	0.004	67980	0.003	70740	0.003
65280	0.004	68040	0.003	70800	0.003
65340	0.004	68100	0.003	70860	0.003
65400	0.004	68160	0.003	70920	0.003
65460	0.004	68220	0.003	70980	0.003
65520	0.004	68280	0.003		
65580	0.004	68340	0.003		
65640	0.004	68400	0.003		
65700	0.004	68460	0.003		
65760	0.004	68520	0.003		
65820	0.004	68580	0.003		
65880	0.004	68640	0.003		
65940	0.004	68700	0.003		
66000	0.004	68760	0.003		
66060	0.004	68820	0.003		
66120	0.004	68880	0.003		
66180	0.004	68940	0.003		
66240	0.004	69000	0.003		
66300	0.004	69060	0.003		
66360	0.004	69120	0.003		
66420	0.004	69180	0.004		
66480	0.004	69240	0.003		
66540	0.004	69300	0.004		
66600	0.004	69360	0.004		
66660	0.004	69420	0.003		
66720	0.004	69480	0.003		
66780	0.004	69540	0.003		
66840	0.004	69600	0.003		
66900	0.004	69660	0.003		
66960	0.004	69720	0.003		
67020	0.003	69780	0.003		
67080	0.003	69840	0.003		
67140	0.003	69900	0.003		
67200	0.003	69960	0.003		
67260	0.003	70020	0.003		
67320	0.003	70080	0.003		
67380	0.003	70140	0.003		
67440	0.003	70200	0.003		
67500	0.003	70260	0.003		

Location 2		Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.005
Model Number	8530	1680	0.005
Serial Number	8530141712	1740	0.005
Firmware Version	3.7	1800	0.005
Calibration Date	8/15/2017	1860	0.005
Test Name	MANUAL_009	1920	0.005
Test Start Time	11:44:58 AM	1980	0.005
Test Start Date	4/11/2018	2040	0.005
Test Length [D:H:M]	0:01:01	2100	0.005
Test Interval [M:S]	1:00	2160	0.005
Mass Average [mg/m3]	0.005	2220	0.005
Mass Minimum [mg/m3]	0.004	2280	0.005
Mass Maximum [mg/m3]	0.007	2340	0.005
Mass TWA [mg/m3]	0.001	2400	0.005
Photometric User Cal	1	2460	0.005
Flow User Cal	0	2520	0.005
Errors		2580	0.005
Number of Samples	61	2640	0.005
Elapsed Time [s]	Mass [mg/m3]	2700	0.004
60	0.007	2760	0.005
120	0.007	2820	0.004
180	0.007	2880	0.004
240	0.007	2940	0.004
300	0.007	3000	0.004
360	0.006	3060	0.005
420	0.006	3120	0.005
480	0.006	3180	0.004
540	0.006	3240	0.005
600	0.006	3300	0.004
660	0.006	3360	0.004
720	0.006	3420	0.004
780	0.006	3480	0.004
840	0.006	3540	0.005
900	0.006	3600	0.004
960	0.006	3660	0.004
1020	0.006		
1080	0.006		
1140	0.006		
1200	0.006		
1260	0.005		
1320	0.005		
1380	0.005		
1440	0.005		
1500	0.005		
1560	0.005		

Location 3		Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.002	4320	0.002	7020	0.002	9720	0.002	12420	0.002
Model Number	8530	1680	0.002	4380	0.002	7080	0.002	9780	0.001	12480	0.002
Serial Number	8530141712	1740	0.002	4440	0.002	7140	0.002	9840	0.001	12540	0.002
Firmware Version	3.7	1800	0.002	4500	0.002	7200	0.002	9900	0.002	12600	0.002
Calibration Date	8/15/2017	1860	0.002	4560	0.002	7260	0.002	9960	0.002	12660	0.002
Test Name	MANUAL_008	1920	0.002	4620	0.002	7320	0.002	10020	0.001	12720	0.002
Test Start Time	1:26:05 PM	1980	0.002	4680	0.002	7380	0.002	10080	0.001	12780	0.002
Test Start Date	4/10/2018	2040	0.002	4740	0.002	7440	0.002	10140	0.001	12840	0.002
Test Length [D:H:M]	0:22:18	2100	0.002	4800	0.002	7500	0.002	10200	0.001	12900	0.002
Test Interval [M:S]	1:00	2160	0.002	4860	0.002	7560	0.002	10260	0.001	12960	0.002
Mass Average [mg/m3]	0.002	2220	0.002	4920	0.002	7620	0.002	10320	0.001	13020	0.002
Mass Minimum [mg/m3]	0	2280	0.002	4980	0.002	7680	0.002	10380	0.002	13080	0.002
Mass Maximum [mg/m3]	0.003	2340	0.002	5040	0.002	7740	0.002	10440	0.002	13140	0.002
Mass TWA [mg/m3]	0.002	2400	0.002	5100	0.002	7800	0.002	10500	0.002	13200	0.002
Photometric User Cal	1	2460	0.002	5160	0.002	7860	0.002	10560	0.002	13260	0.002
Flow User Cal	0	2520	0.002	5220	0.002	7920	0.002	10620	0.002	13320	0.002
Errors		2580	0.002	5280	0.002	7980	0.002	10680	0.002	13380	0.002
Number of Samples	349	2640	0.002	5340	0.002	8040	0.002	10740	0.002	13440	0.002
Elapsed Time [s]	Mass [mg/m3]	2700	0.002	5400	0.002	8100	0.002	10800	0.002	13500	0.002
60	0.003	2760	0.002	5460	0.002	8160	0.002	10860	0.002	13560	0.002
120	0.003	2820	0.002	5520	0.002	8220	0.002	10920	0.002	13620	0.002
180	0.003	2880	0.002	5580	0.002	8280	0.002	10980	0.002	13680	0.002
240	0.003	2940	0.002	5640	0.002	8340	0.002	11040	0.002	13740	0.002
300	0.003	3000	0.002	5700	0.002	8400	0.002	11100	0.002	13800	0.002
360	0.003	3060	0.002	5760	0.002	8460	0.002	11160	0.002	13860	0.002
420	0.003	3120	0.002	5820	0.002	8520	0.002	11220	0.002	13920	0.002
480	0.002	3180	0.002	5880	0.002	8580	0.002	11280	0.002	13980	0.002
540	0.003	3240	0.002	5940	0.002	8640	0.002	11340	0.002	14040	0.002
600	0.003	3300	0.002	6000	0.002	8700	0.002	11400	0.002	14100	0.002
660	0.003	3360	0.002	6060	0.002	8760	0.002	11460	0.002	14160	0.002
720	0.003	3420	0.002	6120	0.002	8820	0.002	11520	0.002	14220	0.002
780	0.003	3480	0.002	6180	0.002	8880	0.002	11580	0.002	14280	0.002
840	0.003	3540	0.002	6240	0.002	8940	0.002	11640	0.002	14340	0.002
900	0.003	3600	0.002	6300	0.002	9000	0.002	11700	0.002	14400	0.002
960	0.003	3660	0.002	6360	0.002	9060	0.002	11760	0.002	14460	0.002
1020	0.002	3720	0.002	6420	0.002	9120	0.002	11820	0.002	14520	0.002
1080	0.002	3780	0.002	6480	0.002	9180	0.002	11880	0.002	14580	0.002
1140	0.002	3840	0.002	6540	0.002	9240	0.002	11940	0.002	14640	0.002
1200	0.002	3900	0.002	6600	0.002	9300	0.002	12000	0.002	14700	0.002
1260	0.002	3960	0.002	6660	0.002	9360	0.002	12060	0.002	14760	0.002
1320	0.002	4020	0.002	6720	0.002	9420	0.002	12120	0.002	14820	0.002
1380	0.002	4080	0.002	6780	0.002	9480	0.002	12180	0.002	14880	0.002
1440	0.002	4140	0.002	6840	0.002	9540	0.002	12240	0.002	14940	0.002
1500	0.002	4200	0.002	6900	0.002	9600	0.002	12300	0.002	15000	0.002
1560	0.002	4260	0.002	6960	0.002	9660	0.002	12360	0.002	15060	0.002

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
15120	0.002	17880	0.002	20640	0.003
15180	0.002	17940	0.002	20700	0.003
15240	0.002	18000	0.002	20760	0.003
15300	0.002	18060	0.002	20820	0.002
15360	0.002	18120	0.002		
15420	0.002	18180	0.002		
15480	0.002	18240	0.002		
15540	0.002	18300	0.002		
15600	0.002	18360	0.002		
15660	0.002	18420	0.002		
15720	0.002	18480	0.002		
15780	0.002	18540	0.002		
15840	0.002	18600	0.002		
15900	0.002	18660	0.002		
15960	0.002	18720	0.002		
16020	0.002	18780	0.002		
16080	0.002	18840	0.002		
16140	0.002	18900	0.002		
16200	0.002	18960	0.002		
16260	0.002	19020	0.002		
16320	0.002	19080	0.002		
16380	0.002	19140	0.002		
16440	0.002	19200	0.002		
16500	0.002	19260	0.002		
16560	0.002	19320	0.002		
16620	0.002	19380	0.002		
16680	0.002	19440	0.002		
16740	0.002	19500	0.002		
16800	0.002	19560	0.002		
16860	0.002	19620	0.002		
16920	0.002	19680	0.002		
16980	0.002	19740	0.002		
17040	0.002	19800	0.002		
17100	0.002	19860	0.002		
17160	0.002	19920	0.002		
17220	0.002	19980	0.002		
17280	0.002	20040	0.002		
17340	0.002	20100	0.003		
17400	0.002	20160	0.003		
17460	0.002	20220	0.003		
17520	0.002	20280	0.003		
17580	0.002	20340	0.003		
17640	0.002	20400	0.003		
17700	0.002	20460	0.003		
17760	0.002	20520	0.003		
17820	0.002	20580	0.003		

Location 4		Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.003
Model Number	8530	1680	0.003
Serial Number	8530141712	1740	0.003
Firmware Version	3.7	1800	0.003
Calibration Date	8/15/2017	1860	0.003
Test Name	MANUAL_007	1920	0.003
Test Start Time	12:18:06 PM	1980	0.003
Test Start Date	4/10/2018	2040	0.003
Test Length [D:H:M]	0:00:59	2100	0.003
Test Interval [M:S]	1:00	2160	0.003
Mass Average [mg/m3]	0.003	2220	0.003
Mass Minimum [mg/m3]	0.003	2280	0.003
Mass Maximum [mg/m3]	0.005	2340	0.003
Mass TWA [mg/m3]	0	2400	0.003
Photometric User Cal	1	2460	0.003
Flow User Cal	0	2520	0.003
Errors		2580	0.003
Number of Samples	59	2640	0.003
Elapsed Time [s]	Mass [mg/m3]	2700	0.003
60	0.005	2760	0.003
120	0.005	2820	0.003
180	0.005	2880	0.003
240	0.004	2940	0.003
300	0.004	3000	0.003
360	0.004	3060	0.003
420	0.004	3120	0.003
480	0.004	3180	0.003
540	0.004	3240	0.003
600	0.004	3300	0.003
660	0.004	3360	0.003
720	0.004	3420	0.003
780	0.004	3480	0.003
840	0.004	3540	0.003
900	0.004		
960	0.004		
1020	0.004		
1080	0.004		
1140	0.004		
1200	0.004		
1260	0.004		
1320	0.004		
1380	0.004		
1440	0.004		
1500	0.004		
1560	0.004		

Location 5		Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.004
Model Number	8530	1680	0.004
Serial Number	8530141712	1740	0.004
Firmware Version	3.7	1800	0.004
Calibration Date	8/15/2017	1860	0.004
Test Name	MANUAL_010	1920	0.003
Test Start Time	12:51:40 PM	1980	0.003
Test Start Date	4/11/2018	2040	0.003
Test Length [D:H:M]	0:00:57	2100	0.003
Test Interval [M:S]	1:00	2160	0.003
Mass Average [mg/m3]	0.004	2220	0.003
Mass Minimum [mg/m3]	0.003	2280	0.003
Mass Maximum [mg/m3]	0.005	2340	0.003
Mass TWA [mg/m3]	0	2400	0.003
Photometric User Cal	1	2460	0.003
Flow User Cal	0	2520	0.003
Errors		2580	0.003
Number of Samples	57	2640	0.003
Elapsed Time [s]	Mass [mg/m3]	2700	0.004
60	0.004	2760	0.004
120	0.004	2820	0.004
180	0.004	2880	0.003
240	0.004	2940	0.003
300	0.004	3000	0.003
360	0.004	3060	0.004
420	0.004	3120	0.004
480	0.004	3180	0.004
540	0.004	3240	0.003
600	0.004	3300	0.003
660	0.004	3360	0.003
720	0.004	3420	0.003
780	0.004		
840	0.004		
900	0.004		
960	0.004		
1020	0.004		
1080	0.004		
1140	0.004		
1200	0.004		
1260	0.004		
1320	0.004		
1380	0.003		
1440	0.004		
1500	0.004		
1560	0.005		

Location 6		Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.003
Model Number	8530	1680	0.003
Serial Number	8530141712	1740	0.003
Firmware Version	3.7	1800	0.003
Calibration Date	8/15/2017	1860	0.003
Test Name	MANUAL_004	1920	0.003
Test Start Time	11:30:46 AM	1980	0.003
Test Start Date	4/9/2018	2040	0.002
Test Length [D:H:M]	0:01:01	2100	0.002
Test Interval [M:S]	1:00	2160	0.002
Mass Average [mg/m3]	0.003	2220	0.002
Mass Minimum [mg/m3]	0.002	2280	0.002
Mass Maximum [mg/m3]	0.003	2340	0.002
Mass TWA [mg/m3]	0	2400	0.002
Photometric User Cal	1	2460	0.002
Flow User Cal	0	2520	0.002
Errors		2580	0.002
Number of Samples	61	2640	0.002
Elapsed Time [s]	Mass [mg/m3]	2700	0.002
60	0.003	2760	0.002
120	0.003	2820	0.002
180	0.003	2880	0.002
240	0.003	2940	0.002
300	0.003	3000	0.002
360	0.003	3060	0.002
420	0.003	3120	0.002
480	0.003	3180	0.002
540	0.003	3240	0.002
600	0.003	3300	0.002
660	0.003	3360	0.002
720	0.003	3420	0.002
780	0.003	3480	0.002
840	0.003	3540	0.002
900	0.003	3600	0.002
960	0.003	3660	0.002
1020	0.003		
1080	0.003		
1140	0.003		
1200	0.003		
1260	0.003		
1320	0.003		
1380	0.003		
1440	0.003		
1500	0.003		
1560	0.003		

Location 7		Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.001	4320	0	7020	0	9720	0.001	12420	0.001
Model Number	8530	1680	0.001	4380	0	7080	0	9780	0.001	12480	0.001
Serial Number	8530141712	1740	0.001	4440	0	7140	0	9840	0.001	12540	0.001
Firmware Version	3.7	1800	0.001	4500	0	7200	0	9900	0.001	12600	0.002
Calibration Date	8/15/2017	1860	0.001	4560	0.001	7260	0	9960	0.001	12660	0.002
Test Name	MANUAL_002	1920	0.001	4620	0	7320	0	10020	0.001	12720	0.002
Test Start Time	3:23:32 PM	1980	0.001	4680	0	7380	0	10080	0.001	12780	0.002
Test Start Date	4/2/2018	2040	0.001	4740	0.001	7440	0	10140	0.001	12840	0.002
Test Length [D:H:M]	0:18:43	2100	0.001	4800	0.001	7500	0	10200	0.001	12900	0.002
Test Interval [M:S]	1:00	2160	0.001	4860	0	7560	0	10260	0.001	12960	0.001
Mass Average [mg/m3]	0.003	2220	0.001	4920	0	7620	0.001	10320	0.001	13020	0.002
Mass Minimum [mg/m3]	0	2280	0.001	4980	0	7680	0.001	10380	0.001	13080	0.001
Mass Maximum [mg/m3]	0.005	2340	0.001	5040	0	7740	0.001	10440	0.001	13140	0.002
Mass TWA [mg/m3]	0.002	2400	0.001	5100	0	7800	0.001	10500	0.001	13200	0.002
Photometric User Cal	1	2460	0.001	5160	0	7860	0.001	10560	0.001	13260	0.002
Flow User Cal	0	2520	0.001	5220	0	7920	0.001	10620	0.001	13320	0.002
Errors		2580	0.001	5280	0	7980	0.001	10680	0.001	13380	0.002
Number of Samples	1123	2640	0.001	5340	0	8040	0.001	10740	0.001	13440	0.001
Elapsed Time [s]	Mass [mg/m3]	2700	0.001	5400	0	8100	0.001	10800	0.001	13500	0.001
60	0.002	2760	0.001	5460	0	8160	0.001	10860	0.001	13560	0.002
120	0.002	2820	0.001	5520	0	8220	0.001	10920	0.001	13620	0.001
180	0.002	2880	0.001	5580	0	8280	0.001	10980	0.001	13680	0.002
240	0.002	2940	0.001	5640	0	8340	0.001	11040	0.001	13740	0.002
300	0.002	3000	0.001	5700	0	8400	0.001	11100	0.001	13800	0.002
360	0.002	3060	0.001	5760	0	8460	0.001	11160	0.001	13860	0.002
420	0.002	3120	0.001	5820	0	8520	0.001	11220	0.001	13920	0.002
480	0.002	3180	0.001	5880	0	8580	0.001	11280	0.001	13980	0.002
540	0.002	3240	0.001	5940	0	8640	0.001	11340	0.001	14040	0.002
600	0.002	3300	0.001	6000	0	8700	0.001	11400	0.001	14100	0.002
660	0.002	3360	0.001	6060	0	8760	0.001	11460	0.001	14160	0.002
720	0.001	3420	0.001	6120	0	8820	0.001	11520	0.001	14220	0.002
780	0.001	3480	0.001	6180	0	8880	0.001	11580	0.001	14280	0.002
840	0.001	3540	0.001	6240	0	8940	0.001	11640	0.001	14340	0.002
900	0.001	3600	0	6300	0	9000	0.001	11700	0.001	14400	0.002
960	0.001	3660	0	6360	0	9060	0.001	11760	0.001	14460	0.002
1020	0.001	3720	0	6420	0	9120	0.001	11820	0.001	14520	0.002
1080	0.001	3780	0	6480	0	9180	0.001	11880	0.001	14580	0.002
1140	0.001	3840	0	6540	0	9240	0.001	11940	0.001	14640	0.002
1200	0.001	3900	0	6600	0	9300	0.001	12000	0.001	14700	0.002
1260	0.001	3960	0	6660	0	9360	0.001	12060	0.001	14760	0.002
1320	0.001	4020	0	6720	0	9420	0.001	12120	0.001	14820	0.002
1380	0.001	4080	0	6780	0	9480	0.001	12180	0.001	14880	0.002
1440	0.001	4140	0	6840	0	9540	0.001	12240	0.001	14940	0.002
1500	0.001	4200	0	6900	0	9600	0.001	12300	0.001	15000	0.002
1560	0.001	4260	0	6960	0	9660	0.001	12360	0.001	15060	0.002

Location 8		Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	1620	0.001	4320	0.001
Model Number	8530	1680	0.001	4380	0.001
Serial Number	8530141712	1740	0.001	4440	0.001
Firmware Version	3.7	1800	0.001		
Calibration Date	8/15/2017	1860	0.001		
Test Name	MANUAL_005	1920	0.001		
Test Start Time	12:41:54 PM	1980	0.001		
Test Start Date	4/9/2018	2040	0.001		
Test Length [D:H:M]	0:01:14	2100	0.001		
Test Interval [M:S]	1:00	2160	0.001		
Mass Average [mg/m3]	0.001	2220	0.001		
Mass Minimum [mg/m3]	0.001	2280	0.001		
Mass Maximum [mg/m3]	0.002	2340	0.001		
Mass TWA [mg/m3]	0	2400	0.001		
Photometric User Cal	1	2460	0.001		
Flow User Cal	0	2520	0.001		
Errors		2580	0.001		
Number of Samples	74	2640	0.001		
Elapsed Time [s]	Mass [mg/m3]	2700	0.001		
60	0.002	2760	0.001		
120	0.002	2820	0.001		
180	0.002	2880	0.001		
240	0.002	2940	0.001		
300	0.002	3000	0.001		
360	0.002	3060	0.001		
420	0.002	3120	0.001		
480	0.002	3180	0.001		
540	0.002	3240	0.001		
600	0.002	3300	0.001		
660	0.002	3360	0.001		
720	0.002	3420	0.001		
780	0.002	3480	0.001		
840	0.002	3540	0.001		
900	0.002	3600	0.001		
960	0.002	3660	0.001		
1020	0.002	3720	0.001		
1080	0.002	3780	0.001		
1140	0.002	3840	0.001		
1200	0.002	3900	0.001		
1260	0.002	3960	0.001		
1320	0.002	4020	0.001		
1380	0.001	4080	0.001		
1440	0.001	4140	0.001		
1500	0.001	4200	0.001		
1560	0.001	4260	0.001		

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
15120	0.002	17880	0.002	20640	0.002	23400	0.002	26160	0.003	28920	0.003
15180	0.002	17940	0.002	20700	0.003	23460	0.002	26220	0.003	28980	0.003
15240	0.002	18000	0.002	20760	0.002	23520	0.003	26280	0.003	29040	0.003
15300	0.002	18060	0.002	20820	0.002	23580	0.003	26340	0.003	29100	0.003
15360	0.002	18120	0.002	20880	0.002	23640	0.002	26400	0.003	29160	0.003
15420	0.002	18180	0.002	20940	0.002	23700	0.003	26460	0.003	29220	0.003
15480	0.002	18240	0.002	21000	0.002	23760	0.002	26520	0.003	29280	0.003
15540	0.002	18300	0.002	21060	0.002	23820	0.002	26580	0.003	29340	0.003
15600	0.002	18360	0.002	21120	0.002	23880	0.002	26640	0.003	29400	0.003
15660	0.002	18420	0.002	21180	0.002	23940	0.003	26700	0.003	29460	0.003
15720	0.002	18480	0.002	21240	0.003	24000	0.003	26760	0.003	29520	0.003
15780	0.002	18540	0.002	21300	0.003	24060	0.003	26820	0.003	29580	0.003
15840	0.002	18600	0.002	21360	0.002	24120	0.003	26880	0.003	29640	0.003
15900	0.002	18660	0.002	21420	0.002	24180	0.003	26940	0.003	29700	0.003
15960	0.002	18720	0.002	21480	0.003	24240	0.003	27000	0.003	29760	0.003
16020	0.002	18780	0.002	21540	0.003	24300	0.003	27060	0.003	29820	0.003
16080	0.002	18840	0.002	21600	0.003	24360	0.003	27120	0.003	29880	0.003
16140	0.002	18900	0.002	21660	0.003	24420	0.003	27180	0.003	29940	0.003
16200	0.002	18960	0.002	21720	0.003	24480	0.003	27240	0.003	30000	0.003
16260	0.002	19020	0.002	21780	0.003	24540	0.003	27300	0.003	30060	0.003
16320	0.002	19080	0.002	21840	0.003	24600	0.003	27360	0.003	30120	0.003
16380	0.002	19140	0.002	21900	0.002	24660	0.003	27420	0.003	30180	0.003
16440	0.002	19200	0.002	21960	0.002	24720	0.003	27480	0.003	30240	0.003
16500	0.002	19260	0.002	22020	0.002	24780	0.003	27540	0.003	30300	0.003
16560	0.002	19320	0.002	22080	0.002	24840	0.003	27600	0.003	30360	0.003
16620	0.002	19380	0.002	22140	0.002	24900	0.003	27660	0.003	30420	0.003
16680	0.002	19440	0.002	22200	0.002	24960	0.003	27720	0.003	30480	0.003
16740	0.002	19500	0.002	22260	0.002	25020	0.003	27780	0.003	30540	0.003
16800	0.002	19560	0.002	22320	0.002	25080	0.003	27840	0.003	30600	0.003
16860	0.002	19620	0.002	22380	0.002	25140	0.003	27900	0.003	30660	0.003
16920	0.002	19680	0.002	22440	0.002	25200	0.003	27960	0.003	30720	0.003
16980	0.002	19740	0.002	22500	0.002	25260	0.003	28020	0.003	30780	0.003
17040	0.002	19800	0.002	22560	0.002	25320	0.003	28080	0.003	30840	0.003
17100	0.002	19860	0.002	22620	0.002	25380	0.003	28140	0.003	30900	0.003
17160	0.002	19920	0.002	22680	0.002	25440	0.003	28200	0.003	30960	0.003
17220	0.002	19980	0.002	22740	0.002	25500	0.003	28260	0.003	31020	0.003
17280	0.002	20040	0.002	22800	0.002	25560	0.003	28320	0.003	31080	0.003
17340	0.002	20100	0.002	22860	0.002	25620	0.003	28380	0.003	31140	0.003
17400	0.002	20160	0.002	22920	0.002	25680	0.003	28440	0.003	31200	0.003
17460	0.002	20220	0.002	22980	0.002	25740	0.003	28500	0.003	31260	0.003
17520	0.002	20280	0.002	23040	0.002	25800	0.003	28560	0.003	31320	0.003
17580	0.002	20340	0.002	23100	0.002	25860	0.003	28620	0.003	31380	0.003
17640	0.002	20400	0.002	23160	0.002	25920	0.003	28680	0.003	31440	0.003
17700	0.002	20460	0.002	23220	0.003	25980	0.003	28740	0.003	31500	0.003
17760	0.002	20520	0.002	23280	0.003	26040	0.003	28800	0.003	31560	0.003
17820	0.002	20580	0.002	23340	0.002	26100	0.003	28860	0.003	31620	0.003

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
31680	0.003	34440	0.003	37200	0.003	39960	0.003	42720	0.004	45480	0.004
31740	0.003	34500	0.003	37260	0.003	40020	0.003	42780	0.004	45540	0.004
31800	0.003	34560	0.003	37320	0.003	40080	0.003	42840	0.004	45600	0.004
31860	0.003	34620	0.003	37380	0.003	40140	0.003	42900	0.004	45660	0.004
31920	0.003	34680	0.003	37440	0.003	40200	0.003	42960	0.004	45720	0.004
31980	0.003	34740	0.003	37500	0.003	40260	0.003	43020	0.004	45780	0.004
32040	0.003	34800	0.003	37560	0.003	40320	0.003	43080	0.004	45840	0.004
32100	0.003	34860	0.003	37620	0.003	40380	0.003	43140	0.004	45900	0.004
32160	0.003	34920	0.003	37680	0.003	40440	0.003	43200	0.004	45960	0.004
32220	0.003	34980	0.003	37740	0.003	40500	0.003	43260	0.004	46020	0.004
32280	0.003	35040	0.003	37800	0.003	40560	0.003	43320	0.004	46080	0.004
32340	0.003	35100	0.003	37860	0.003	40620	0.003	43380	0.004	46140	0.004
32400	0.003	35160	0.003	37920	0.003	40680	0.003	43440	0.004	46200	0.004
32460	0.003	35220	0.003	37980	0.003	40740	0.003	43500	0.004	46260	0.004
32520	0.003	35280	0.003	38040	0.003	40800	0.003	43560	0.004	46320	0.004
32580	0.003	35340	0.003	38100	0.003	40860	0.003	43620	0.004	46380	0.004
32640	0.003	35400	0.003	38160	0.003	40920	0.003	43680	0.004	46440	0.004
32700	0.003	35460	0.003	38220	0.003	40980	0.003	43740	0.004	46500	0.004
32760	0.003	35520	0.003	38280	0.003	41040	0.003	43800	0.004	46560	0.004
32820	0.003	35580	0.003	38340	0.003	41100	0.003	43860	0.004	46620	0.004
32880	0.003	35640	0.003	38400	0.003	41160	0.003	43920	0.004	46680	0.004
32940	0.003	35700	0.003	38460	0.003	41220	0.003	43980	0.004	46740	0.004
33000	0.003	35760	0.003	38520	0.003	41280	0.003	44040	0.004	46800	0.004
33060	0.003	35820	0.003	38580	0.003	41340	0.003	44100	0.004	46860	0.004
33120	0.003	35880	0.003	38640	0.003	41400	0.003	44160	0.004	46920	0.004
33180	0.003	35940	0.003	38700	0.003	41460	0.003	44220	0.004	46980	0.004
33240	0.003	36000	0.003	38760	0.003	41520	0.003	44280	0.004	47040	0.004
33300	0.003	36060	0.003	38820	0.003	41580	0.003	44340	0.004	47100	0.004
33360	0.003	36120	0.003	38880	0.003	41640	0.003	44400	0.004	47160	0.004
33420	0.003	36180	0.003	38940	0.003	41700	0.003	44460	0.004	47220	0.004
33480	0.003	36240	0.003	39000	0.003	41760	0.003	44520	0.004	47280	0.004
33540	0.003	36300	0.003	39060	0.003	41820	0.003	44580	0.004	47340	0.004
33600	0.003	36360	0.003	39120	0.003	41880	0.003	44640	0.004	47400	0.004
33660	0.003	36420	0.003	39180	0.003	41940	0.004	44700	0.004	47460	0.004
33720	0.003	36480	0.003	39240	0.003	42000	0.004	44760	0.004	47520	0.004
33780	0.003	36540	0.003	39300	0.003	42060	0.003	44820	0.004	47580	0.004
33840	0.003	36600	0.003	39360	0.003	42120	0.004	44880	0.004	47640	0.004
33900	0.003	36660	0.003	39420	0.003	42180	0.004	44940	0.004	47700	0.004
33960	0.003	36720	0.003	39480	0.003	42240	0.004	45000	0.004	47760	0.004
34020	0.003	36780	0.003	39540	0.003	42300	0.004	45060	0.004	47820	0.004
34080	0.003	36840	0.003	39600	0.003	42360	0.004	45120	0.004	47880	0.004
34140	0.003	36900	0.003	39660	0.003	42420	0.004	45180	0.004	47940	0.004
34200	0.003	36960	0.003	39720	0.003	42480	0.004	45240	0.004	48000	0.004
34260	0.003	37020	0.003	39780	0.003	42540	0.004	45300	0.004	48060	0.004
34320	0.003	37080	0.003	39840	0.003	42600	0.004	45360	0.004	48120	0.004
34380	0.003	37140	0.003	39900	0.003	42660	0.004	45420	0.004	48180	0.004

Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
48240	0.004	51000	0.004	53760	0.004	56520	0.004	59280	0.004	62040	0.004
48300	0.004	51060	0.004	53820	0.003	56580	0.004	59340	0.004	62100	0.004
48360	0.004	51120	0.004	53880	0.003	56640	0.004	59400	0.004	62160	0.004
48420	0.004	51180	0.004	53940	0.004	56700	0.004	59460	0.004	62220	0.004
48480	0.004	51240	0.004	54000	0.003	56760	0.004	59520	0.004	62280	0.004
48540	0.004	51300	0.004	54060	0.004	56820	0.004	59580	0.004	62340	0.004
48600	0.004	51360	0.004	54120	0.003	56880	0.004	59640	0.004	62400	0.004
48660	0.004	51420	0.004	54180	0.004	56940	0.004	59700	0.004	62460	0.004
48720	0.004	51480	0.004	54240	0.004	57000	0.004	59760	0.004	62520	0.004
48780	0.004	51540	0.004	54300	0.003	57060	0.004	59820	0.004	62580	0.004
48840	0.004	51600	0.004	54360	0.003	57120	0.004	59880	0.004	62640	0.004
48900	0.004	51660	0.004	54420	0.003	57180	0.004	59940	0.004	62700	0.004
48960	0.004	51720	0.004	54480	0.004	57240	0.004	60000	0.004	62760	0.004
49020	0.004	51780	0.004	54540	0.004	57300	0.004	60060	0.004	62820	0.004
49080	0.004	51840	0.004	54600	0.003	57360	0.004	60120	0.004	62880	0.004
49140	0.004	51900	0.004	54660	0.003	57420	0.004	60180	0.004	62940	0.004
49200	0.004	51960	0.004	54720	0.004	57480	0.004	60240	0.004	63000	0.004
49260	0.004	52020	0.004	54780	0.004	57540	0.004	60300	0.004	63060	0.004
49320	0.004	52080	0.004	54840	0.004	57600	0.004	60360	0.004	63120	0.004
49380	0.004	52140	0.004	54900	0.004	57660	0.004	60420	0.004	63180	0.004
49440	0.004	52200	0.004	54960	0.004	57720	0.004	60480	0.004	63240	0.004
49500	0.004	52260	0.004	55020	0.004	57780	0.004	60540	0.004	63300	0.004
49560	0.004	52320	0.004	55080	0.004	57840	0.004	60600	0.004	63360	0.005
49620	0.004	52380	0.004	55140	0.004	57900	0.004	60660	0.004	63420	0.005
49680	0.004	52440	0.004	55200	0.004	57960	0.004	60720	0.004	63480	0.005
49740	0.004	52500	0.004	55260	0.004	58020	0.004	60780	0.004	63540	0.005
49800	0.004	52560	0.004	55320	0.004	58080	0.004	60840	0.005	63600	0.004
49860	0.004	52620	0.004	55380	0.004	58140	0.004	60900	0.005	63660	0.004
49920	0.004	52680	0.004	55440	0.004	58200	0.004	60960	0.005	63720	0.005
49980	0.004	52740	0.004	55500	0.004	58260	0.004	61020	0.005	63780	0.005
50040	0.004	52800	0.004	55560	0.004	58320	0.004	61080	0.005	63840	0.004
50100	0.004	52860	0.004	55620	0.004	58380	0.004	61140	0.005	63900	0.004
50160	0.004	52920	0.004	55680	0.004	58440	0.004	61200	0.005	63960	0.004
50220	0.004	52980	0.004	55740	0.004	58500	0.004	61260	0.005	64020	0.004
50280	0.004	53040	0.004	55800	0.004	58560	0.004	61320	0.004	64080	0.004
50340	0.004	53100	0.004	55860	0.004	58620	0.004	61380	0.004	64140	0.005
50400	0.004	53160	0.004	55920	0.004	58680	0.004	61440	0.004	64200	0.005
50460	0.004	53220	0.004	55980	0.004	58740	0.004	61500	0.004	64260	0.005
50520	0.004	53280	0.004	56040	0.004	58800	0.004	61560	0.004	64320	0.005
50580	0.004	53340	0.004	56100	0.004	58860	0.004	61620	0.004	64380	0.005
50640	0.004	53400	0.004	56160	0.004	58920	0.004	61680	0.004	64440	0.005
50700	0.004	53460	0.004	56220	0.004	58980	0.004	61740	0.004	64500	0.005
50760	0.004	53520	0.004	56280	0.004	59040	0.004	61800	0.004	64560	0.005
50820	0.004	53580	0.004	56340	0.004	59100	0.004	61860	0.004	64620	0.005
50880	0.004	53640	0.004	56400	0.004	59160	0.004	61920	0.005	64680	0.005
50940	0.004	53700	0.004	56460	0.004	59220	0.004	61980	0.005	64740	0.005

Elapsed Time [s]	Mass [mg/m3]
64800	0.005
64860	0.005
64920	0.005
64980	0.005
65040	0.005
65100	0.005
65160	0.005
65220	0.005
65280	0.005
65340	0.005
65400	0.005
65460	0.005
65520	0.005
65580	0.005
65640	0.005
65700	0.005
65760	0.005
65820	0.005
65880	0.005
65940	0.005
66000	0.005
66060	0.005
66120	0.005
66180	0.005
66240	0.005
66300	0.005
66360	0.005
66420	0.005
66480	0.005
66540	0.005
66600	0.005
66660	0.005
66720	0.005
66780	0.004
66840	0.005
66900	0.005
66960	0.005
67020	0.005
67080	0.005
67140	0.005
67200	0.005
67260	0.005
67320	0.005
67380	0.005

Location 1								Sum ten	Sum ten
Timestamp	Lmax-1	L10-1	L90-1	Lmax-1	Lmin-1	CountA:	1184	1.89E+08	1.71E+07
						Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
4/9/2018 14:15:40	67.60	62.40	41.60	67.60	38.10	5.75E+06	6.46E+03	52.03	41.59
4/9/2018 14:16:40	72.00	65.20	48.60	72.00	45.80	1.58E+07	3.80E+04		
4/9/2018 14:17:40	72.60	63.50	51.20	72.60	47.00	1.82E+07	5.01E+04		
4/9/2018 14:18:40	67.40	60.90	43.30	67.40	42.30	5.50E+06	1.70E+04		
4/9/2018 14:19:40	57.60	54.20	44.70	57.60	42.90	5.75E+05	1.95E+04		
4/9/2018 14:20:40	64.00	58.20	45.70	64.00	44.40	2.51E+06	2.75E+04		
4/9/2018 14:21:40	51.90	49.70	43.90	51.90	41.80	1.55E+05	1.51E+04		
4/9/2018 14:22:40	67.00	61.30	41.50	67.00	41.10	5.01E+06	1.29E+04		
4/9/2018 14:23:40	66.00	57.80	50.30	66.00	48.00	3.98E+06	6.31E+04		
4/9/2018 14:24:40	55.20	52.10	41.80	55.20	41.50	3.31E+05	1.41E+04		
4/9/2018 14:25:40	46.40	44.40	41.70	46.40	41.20	4.37E+04	1.32E+04		
4/9/2018 14:26:40	68.40	62.80	43.70	68.40	42.00	6.92E+06	1.58E+04		
4/9/2018 14:27:40	51.10	50.00	42.00	51.10	41.70	1.29E+05	1.48E+04		
4/9/2018 14:28:40	52.40	51.10	42.80	52.40	42.10	1.74E+05	1.62E+04		
4/9/2018 14:29:40	51.40	49.20	42.40	51.40	41.60	1.38E+05	1.45E+04		
4/9/2018 14:30:40	54.50	49.40	42.60	54.50	41.50	2.82E+05	1.41E+04		
4/9/2018 14:31:40	46.90	45.30	40.80	46.90	40.50	4.90E+04	1.12E+04		
4/9/2018 14:32:40	44.00	41.80	40.40	44.00	40.20	2.51E+04	1.05E+04		
4/9/2018 14:33:40	49.10	45.00	40.50	49.10	40.20	8.13E+04	1.05E+04		
4/9/2018 14:34:40	53.40	51.00	41.00	53.40	40.70	2.19E+05	1.17E+04		
4/9/2018 14:35:40	54.10	51.30	41.20	54.10	40.40	2.57E+05	1.10E+04		
4/9/2018 14:36:40	40.60	40.30	40.00	40.60	39.70	1.15E+04	9.33E+03		
4/9/2018 14:37:40	48.80	45.20	40.20	48.80	39.90	7.59E+04	9.77E+03		
4/9/2018 14:38:40	48.40	45.50	40.20	48.40	39.90	6.92E+04	9.77E+03		
4/9/2018 14:39:40	51.40	49.40	40.60	51.40	40.30	1.38E+05	1.07E+04		
4/9/2018 14:40:40	46.20	44.30	40.30	46.20	40.00	4.17E+04	1.00E+04		
4/9/2018 14:41:40	48.40	46.40	40.60	48.40	40.10	6.92E+04	1.02E+04		
4/9/2018 14:42:40	52.40	50.90	41.20	52.40	40.80	1.74E+05	1.20E+04		
4/9/2018 14:43:40	47.70	46.90	42.70	47.70	41.70	5.89E+04	1.48E+04		
4/9/2018 14:44:40	42.30	42.00	41.20	42.30	40.70	1.70E+04	1.17E+04		
4/9/2018 14:45:40	41.60	41.50	40.90	41.60	40.50	1.45E+04	1.12E+04		
4/9/2018 14:46:40	49.60	47.30	40.60	49.60	40.20	9.12E+04	1.05E+04		
4/9/2018 14:47:40	46.80	46.00	41.20	46.80	40.90	4.79E+04	1.23E+04		
4/9/2018 14:48:40	43.00	41.40	40.30	43.00	39.80	2.00E+04	9.55E+03		
4/9/2018 14:49:40	47.90	44.80	40.00	47.90	39.70	6.17E+04	9.33E+03		
4/9/2018 14:50:40	47.90	45.20	40.30	47.90	40.00	6.17E+04	1.00E+04		
4/9/2018 14:51:40	51.60	48.30	41.00	51.60	40.50	1.45E+05	1.12E+04		
4/9/2018 14:52:40	46.30	45.50	41.30	46.30	40.30	4.27E+04	1.07E+04		
4/9/2018 14:53:40	43.20	42.40	40.90	43.20	40.50	2.09E+04	1.12E+04		
4/9/2018 14:54:40	47.20	46.30	40.40	47.20	40.00	5.25E+04	1.00E+04		
4/9/2018 14:55:40	43.70	42.50	40.50	43.70	40.00	2.34E+04	1.00E+04		
4/9/2018 14:56:40	46.60	44.20	40.70	46.60	40.30	4.57E+04	1.07E+04		
4/9/2018 14:57:40	42.50	41.20	40.40	42.50	40.20	1.78E+04	1.05E+04		
4/9/2018 14:58:40	52.00	51.60	43.10	52.00	42.50	1.58E+05	1.78E+04		
4/9/2018 14:59:40	52.70	50.70	42.10	52.70	41.50	1.86E+05	1.41E+04		
4/9/2018 15:00:40	48.40	45.80	41.40	48.40	41.00	6.92E+04	1.26E+04		
4/9/2018 15:01:40	53.40	51.70	42.60	53.40	42.00	2.19E+05	1.58E+04		
4/9/2018 15:02:40	49.40	46.30	40.70	49.40	40.50	8.71E+04	1.12E+04		
4/9/2018 15:03:40	48.90	46.90	41.00	48.90	40.70	7.76E+04	1.17E+04		

4/9/2018 15:04:40	47.10	46.00	41.20	47.10	40.80	5.13E+04	1.20E+04
4/9/2018 15:05:40	46.40	44.50	41.20	46.40	40.80	4.37E+04	1.20E+04
4/9/2018 15:06:40	49.30	46.80	41.30	49.30	41.00	8.51E+04	1.26E+04
4/9/2018 15:07:40	47.80	44.60	41.30	47.80	41.00	6.03E+04	1.26E+04
4/9/2018 15:08:40	50.30	48.30	43.30	50.30	41.70	1.07E+05	1.48E+04
4/9/2018 15:09:40	42.90	42.20	41.40	42.90	41.20	1.95E+04	1.32E+04
4/9/2018 15:10:40	47.60	46.30	42.00	47.60	41.10	5.75E+04	1.29E+04
4/9/2018 15:11:40	49.90	46.60	41.10	49.90	40.80	9.77E+04	1.20E+04
4/9/2018 15:12:40	48.50	46.40	41.00	48.50	40.60	7.08E+04	1.15E+04
4/9/2018 15:13:40	59.80	57.50	46.30	59.80	44.60	9.55E+05	2.88E+04
4/9/2018 15:14:40	47.50	46.60	41.20	47.50	40.80	5.62E+04	1.20E+04
4/9/2018 15:15:40	47.00	44.70	41.10	47.00	40.70	5.01E+04	1.17E+04
4/9/2018 15:16:40	47.50	46.50	41.10	47.50	40.70	5.62E+04	1.17E+04
4/9/2018 15:17:40	46.20	45.30	41.40	46.20	41.10	4.17E+04	1.29E+04
4/9/2018 15:18:40	53.00	51.90	43.40	53.00	42.70	2.00E+05	1.86E+04
4/9/2018 15:19:40	47.30	45.70	40.40	47.30	40.20	5.37E+04	1.05E+04
4/9/2018 15:20:40	48.50	46.90	40.80	48.50	40.20	7.08E+04	1.05E+04
4/9/2018 15:21:40	47.30	45.60	41.80	47.30	41.10	5.37E+04	1.29E+04
4/9/2018 15:22:40	49.70	48.00	40.60	49.70	40.00	9.33E+04	1.00E+04
4/9/2018 15:23:40	49.60	48.10	40.30	49.60	40.00	9.12E+04	1.00E+04
4/9/2018 15:24:40	49.10	48.10	41.40	49.10	40.60	8.13E+04	1.15E+04
4/9/2018 15:25:40	50.30	48.80	40.20	50.30	39.90	1.07E+05	9.77E+03
4/9/2018 15:26:40	49.50	49.20	41.00	49.50	40.20	8.91E+04	1.05E+04
4/9/2018 15:27:40	41.50	41.30	40.70	41.50	40.10	1.41E+04	1.02E+04
4/9/2018 15:28:40	49.40	47.80	41.10	49.40	40.70	8.71E+04	1.17E+04
4/9/2018 15:29:40	45.60	43.40	40.50	45.60	40.00	3.63E+04	1.00E+04
4/9/2018 15:30:40	46.00	44.50	40.40	46.00	40.00	3.98E+04	1.00E+04
4/9/2018 15:31:40	46.00	44.10	40.10	46.00	39.80	3.98E+04	9.55E+03
4/9/2018 15:32:40	48.80	46.00	41.50	48.80	41.00	7.59E+04	1.26E+04
4/9/2018 15:33:40	46.30	44.50	40.90	46.30	40.60	4.27E+04	1.15E+04
4/9/2018 15:34:40	45.80	44.90	40.40	45.80	40.00	3.80E+04	1.00E+04
4/9/2018 15:35:40	46.50	44.60	40.70	46.50	40.40	4.47E+04	1.10E+04
4/9/2018 15:36:40	42.00	41.10	40.50	42.00	40.20	1.58E+04	1.05E+04
4/9/2018 15:37:40	43.90	43.10	40.70	43.90	40.30	2.45E+04	1.07E+04
4/9/2018 15:38:40	47.90	46.40	41.00	47.90	40.50	6.17E+04	1.12E+04
4/9/2018 15:39:40	51.90	49.90	41.40	51.90	40.90	1.55E+05	1.23E+04
4/9/2018 15:40:40	47.90	46.70	41.50	47.90	41.10	6.17E+04	1.29E+04
4/9/2018 15:41:40	45.90	42.20	41.30	45.90	41.10	3.89E+04	1.29E+04
4/9/2018 15:42:40	52.70	50.50	41.40	52.70	41.00	1.86E+05	1.26E+04
4/9/2018 15:43:40	51.70	49.80	41.00	51.70	40.70	1.48E+05	1.17E+04
4/9/2018 15:44:40	49.40	48.70	41.60	49.40	41.10	8.71E+04	1.29E+04
4/9/2018 15:45:40	53.70	50.30	40.60	53.70	40.30	2.34E+05	1.07E+04
4/9/2018 15:46:40	50.20	48.80	41.00	50.20	40.50	1.05E+05	1.12E+04
4/9/2018 15:47:40	44.90	43.20	40.90	44.90	40.60	3.09E+04	1.15E+04
4/9/2018 15:48:40	51.00	49.00	41.30	51.00	40.90	1.26E+05	1.23E+04
4/9/2018 15:49:40	50.60	49.70	42.40	50.60	41.00	1.15E+05	1.26E+04
4/9/2018 15:50:40	41.20	41.10	40.60	41.20	40.30	1.32E+04	1.07E+04
4/9/2018 15:51:40	47.00	45.80	40.90	47.00	40.40	5.01E+04	1.10E+04
4/9/2018 15:52:40	45.10	43.70	40.70	45.10	40.40	3.24E+04	1.10E+04
4/9/2018 15:53:40	49.80	48.60	41.10	49.80	40.80	9.55E+04	1.20E+04
4/9/2018 15:54:40	45.70	44.40	40.90	45.70	40.60	3.72E+04	1.15E+04
4/9/2018 15:55:40	47.70	46.90	40.90	47.70	40.60	5.89E+04	1.15E+04

4/9/2018 15:56:40	46.00	44.50	40.90	46.00	40.60	3.98E+04	1.15E+04
4/9/2018 15:57:40	45.70	42.70	41.10	45.70	40.80	3.72E+04	1.20E+04
4/9/2018 15:58:40	48.20	47.20	41.20	48.20	40.90	6.61E+04	1.23E+04
4/9/2018 15:59:40	44.70	43.30	40.90	44.70	40.70	2.95E+04	1.17E+04
4/9/2018 16:00:40	47.20	44.60	41.20	47.20	41.00	5.25E+04	1.26E+04
4/9/2018 16:01:40	47.00	45.70	41.00	47.00	40.80	5.01E+04	1.20E+04
4/9/2018 16:02:40	50.30	47.60	41.00	50.30	40.70	1.07E+05	1.17E+04
4/9/2018 16:03:40	41.30	41.10	40.80	41.30	40.50	1.35E+04	1.12E+04
4/9/2018 16:04:40	42.00	41.50	41.00	42.00	40.60	1.58E+04	1.15E+04
4/9/2018 16:05:40	53.80	52.30	42.00	53.80	41.30	2.40E+05	1.35E+04
4/9/2018 16:06:40	52.80	49.50	42.30	52.80	42.00	1.91E+05	1.58E+04
4/9/2018 16:07:40	48.90	48.50	41.90	48.90	41.50	7.76E+04	1.41E+04
4/9/2018 16:08:40	41.80	41.70	41.40	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 16:09:40	47.70	42.20	41.50	47.70	41.20	5.89E+04	1.32E+04
4/9/2018 16:10:40	48.80	46.90	41.80	48.80	41.60	7.59E+04	1.45E+04
4/9/2018 16:11:40	50.70	48.60	41.70	50.70	41.40	1.17E+05	1.38E+04
4/9/2018 16:12:40	48.00	47.20	41.70	48.00	41.30	6.31E+04	1.35E+04
4/9/2018 16:13:40	44.60	43.20	41.50	44.60	41.20	2.88E+04	1.32E+04
4/9/2018 16:14:40	44.30	43.00	41.60	44.30	41.30	2.69E+04	1.35E+04
4/9/2018 16:15:40	47.90	45.60	41.40	47.90	41.10	6.17E+04	1.29E+04
4/9/2018 16:16:40	42.30	41.80	41.30	42.30	41.00	1.70E+04	1.26E+04
4/9/2018 16:17:40	51.70	48.70	41.70	51.70	41.50	1.48E+05	1.41E+04
4/9/2018 16:18:40	50.10	49.20	45.00	50.10	43.90	1.02E+05	2.45E+04
4/9/2018 16:19:40	50.30	49.50	41.50	50.30	41.30	1.07E+05	1.35E+04
4/9/2018 16:20:40	50.70	49.10	41.50	50.70	41.20	1.17E+05	1.32E+04
4/9/2018 16:21:40	48.70	45.70	41.80	48.70	41.40	7.41E+04	1.38E+04
4/9/2018 16:22:40	51.20	49.10	42.40	51.20	41.60	1.32E+05	1.45E+04
4/9/2018 16:23:40	48.00	47.30	41.30	48.00	41.10	6.31E+04	1.29E+04
4/9/2018 16:24:40	48.80	46.40	41.50	48.80	41.10	7.59E+04	1.29E+04
4/9/2018 16:25:40	46.50	44.30	41.80	46.50	41.30	4.47E+04	1.35E+04
4/9/2018 16:26:40	43.00	42.00	41.40	43.00	41.20	2.00E+04	1.32E+04
4/9/2018 16:27:40	46.80	45.30	41.40	46.80	41.00	4.79E+04	1.26E+04
4/9/2018 16:28:40	49.80	49.50	41.90	49.80	41.60	9.55E+04	1.45E+04
4/9/2018 16:29:40	49.60	48.60	41.80	49.60	41.50	9.12E+04	1.41E+04
4/9/2018 16:30:40	48.20	47.20	42.40	48.20	41.90	6.61E+04	1.55E+04
4/9/2018 16:31:40	48.60	46.00	41.90	48.60	41.30	7.24E+04	1.35E+04
4/9/2018 16:32:40	50.50	48.70	42.60	50.50	42.00	1.12E+05	1.58E+04
4/9/2018 16:33:40	45.50	44.00	41.70	45.50	41.40	3.55E+04	1.38E+04
4/9/2018 16:34:40	45.60	44.20	41.80	45.60	41.20	3.63E+04	1.32E+04
4/9/2018 16:35:40	54.60	50.00	44.90	54.60	43.40	2.88E+05	2.19E+04
4/9/2018 16:36:40	46.70	45.60	41.90	46.70	41.60	4.68E+04	1.45E+04
4/9/2018 16:37:40	48.60	47.30	42.30	48.60	41.70	7.24E+04	1.48E+04
4/9/2018 16:38:40	45.10	42.90	41.50	45.10	41.20	3.24E+04	1.32E+04
4/9/2018 16:39:40	51.70	50.00	41.60	51.70	41.30	1.48E+05	1.35E+04
4/9/2018 16:40:40	51.50	48.30	42.00	51.50	41.50	1.41E+05	1.41E+04
4/9/2018 16:41:40	52.10	51.80	42.10	52.10	41.50	1.62E+05	1.41E+04
4/9/2018 16:42:40	48.60	47.10	42.40	48.60	41.80	7.24E+04	1.51E+04
4/9/2018 16:43:40	45.80	43.10	41.60	45.80	41.30	3.80E+04	1.35E+04
4/9/2018 16:44:40	48.00	46.50	42.30	48.00	42.00	6.31E+04	1.58E+04
4/9/2018 16:45:40	46.40	44.90	41.50	46.40	41.20	4.37E+04	1.32E+04
4/9/2018 16:46:40	48.50	46.90	41.60	48.50	41.30	7.08E+04	1.35E+04
4/9/2018 16:47:40	49.10	46.80	42.80	49.10	42.20	8.13E+04	1.66E+04

4/9/2018 16:48:40	49.60	47.40	42.00	49.60	41.50	9.12E+04	1.41E+04
4/9/2018 16:49:40	45.50	44.00	41.30	45.50	40.90	3.55E+04	1.23E+04
4/9/2018 16:50:40	50.80	49.50	41.30	50.80	41.00	1.20E+05	1.26E+04
4/9/2018 16:51:40	48.80	46.80	41.90	48.80	41.50	7.59E+04	1.41E+04
4/9/2018 16:52:40	47.40	46.30	41.30	47.40	41.10	5.50E+04	1.29E+04
4/9/2018 16:53:40	49.80	47.60	41.70	49.80	41.30	9.55E+04	1.35E+04
4/9/2018 16:54:40	47.30	46.10	41.60	47.30	41.30	5.37E+04	1.35E+04
4/9/2018 16:55:40	49.70	47.60	41.80	49.70	41.50	9.33E+04	1.41E+04
4/9/2018 16:56:40	52.80	51.90	44.90	52.80	44.00	1.91E+05	2.51E+04
4/9/2018 16:57:40	54.10	52.10	41.80	54.10	41.40	2.57E+05	1.38E+04
4/9/2018 16:58:40	48.30	47.20	41.60	48.30	41.30	6.76E+04	1.35E+04
4/9/2018 16:59:40	49.90	47.40	42.10	49.90	41.40	9.77E+04	1.38E+04
4/9/2018 17:00:40	42.80	41.60	41.30	42.80	41.00	1.91E+04	1.26E+04
4/9/2018 17:01:40	55.00	49.60	41.30	55.00	41.00	3.16E+05	1.26E+04
4/9/2018 17:02:40	48.10	46.60	41.50	48.10	41.30	6.46E+04	1.35E+04
4/9/2018 17:03:40	49.90	48.90	41.80	49.90	41.50	9.77E+04	1.41E+04
4/9/2018 17:04:40	48.70	46.80	41.70	48.70	41.40	7.41E+04	1.38E+04
4/9/2018 17:05:40	49.70	47.30	41.90	49.70	41.60	9.33E+04	1.45E+04
4/9/2018 17:06:40	50.40	49.80	41.40	50.40	41.20	1.10E+05	1.32E+04
4/9/2018 17:07:40	48.10	46.60	42.10	48.10	41.40	6.46E+04	1.38E+04
4/9/2018 17:08:40	46.00	45.40	42.40	46.00	42.00	3.98E+04	1.58E+04
4/9/2018 17:09:40	47.20	45.40	41.80	47.20	41.60	5.25E+04	1.45E+04
4/9/2018 17:10:40	48.90	45.50	41.90	48.90	41.70	7.76E+04	1.48E+04
4/9/2018 17:11:40	47.50	44.40	41.90	47.50	41.60	5.62E+04	1.45E+04
4/9/2018 17:12:40	50.20	47.50	42.40	50.20	42.10	1.05E+05	1.62E+04
4/9/2018 17:13:40	50.00	47.50	42.30	50.00	42.00	1.00E+05	1.58E+04
4/9/2018 17:14:40	50.50	48.40	42.20	50.50	41.90	1.12E+05	1.55E+04
4/9/2018 17:15:40	49.50	44.90	41.60	49.50	41.10	8.91E+04	1.29E+04
4/9/2018 17:16:40	48.60	47.80	42.90	48.60	42.20	7.24E+04	1.66E+04
4/9/2018 17:17:40	44.70	43.70	41.40	44.70	41.10	2.95E+04	1.29E+04
4/9/2018 17:18:40	46.00	44.60	41.80	46.00	41.30	3.98E+04	1.35E+04
4/9/2018 17:19:40	55.70	53.70	44.20	55.70	42.90	3.72E+05	1.95E+04
4/9/2018 17:20:40	54.30	50.90	44.10	54.30	43.20	2.69E+05	2.09E+04
4/9/2018 17:21:40	49.60	47.70	42.80	49.60	42.60	9.12E+04	1.82E+04
4/9/2018 17:22:40	46.20	44.70	42.60	46.20	42.40	4.17E+04	1.74E+04
4/9/2018 17:23:40	55.80	52.30	44.70	55.80	42.60	3.80E+05	1.82E+04
4/9/2018 17:24:40	47.90	46.30	42.60	47.90	42.40	6.17E+04	1.74E+04
4/9/2018 17:25:40	52.70	52.00	42.70	52.70	42.50	1.86E+05	1.78E+04
4/9/2018 17:26:40	48.30	45.90	42.70	48.30	42.50	6.76E+04	1.78E+04
4/9/2018 17:27:40	50.30	49.30	44.20	50.30	43.00	1.07E+05	2.00E+04
4/9/2018 17:28:40	50.70	50.00	43.10	50.70	42.80	1.17E+05	1.91E+04
4/9/2018 17:29:40	50.50	48.30	43.30	50.50	42.70	1.12E+05	1.86E+04
4/9/2018 17:30:40	47.80	46.50	43.80	47.80	43.00	6.03E+04	2.00E+04
4/9/2018 17:31:40	48.40	47.10	44.10	48.40	43.40	6.92E+04	2.19E+04
4/9/2018 17:32:40	50.70	49.50	44.70	50.70	43.70	1.17E+05	2.34E+04
4/9/2018 17:33:40	49.40	48.10	44.10	49.40	43.40	8.71E+04	2.19E+04
4/9/2018 17:34:40	47.20	45.00	42.90	47.20	42.60	5.25E+04	1.82E+04
4/9/2018 17:35:40	48.30	46.10	43.00	48.30	42.60	6.76E+04	1.82E+04
4/9/2018 17:36:40	50.00	48.70	43.30	50.00	42.70	1.00E+05	1.86E+04
4/9/2018 17:37:40	44.90	43.90	42.90	44.90	42.50	3.09E+04	1.78E+04
4/9/2018 17:38:40	54.70	53.10	44.80	54.70	43.70	2.95E+05	2.34E+04
4/9/2018 17:39:40	54.80	50.60	43.30	54.80	42.80	3.02E+05	1.91E+04

4/9/2018 17:40:40	48.80	46.20	43.30	48.80	42.80	7.59E+04	1.91E+04
4/9/2018 17:41:40	49.60	48.60	44.80	49.60	43.20	9.12E+04	2.09E+04
4/9/2018 17:42:40	47.20	46.00	42.80	47.20	42.50	5.25E+04	1.78E+04
4/9/2018 17:43:40	47.70	46.40	41.80	47.70	41.60	5.89E+04	1.45E+04
4/9/2018 17:44:40	51.50	49.80	42.60	51.50	42.20	1.41E+05	1.66E+04
4/9/2018 17:45:40	48.80	47.40	42.20	48.80	41.80	7.59E+04	1.51E+04
4/9/2018 17:46:40	49.90	48.90	42.90	49.90	42.40	9.77E+04	1.74E+04
4/9/2018 17:47:40	48.70	46.80	42.30	48.70	41.90	7.41E+04	1.55E+04
4/9/2018 17:48:40	54.40	50.90	42.40	54.40	41.90	2.75E+05	1.55E+04
4/9/2018 17:49:40	50.00	47.00	43.10	50.00	42.50	1.00E+05	1.78E+04
4/9/2018 17:50:40	43.40	42.90	42.40	43.40	42.20	2.19E+04	1.66E+04
4/9/2018 17:51:40	43.50	42.90	42.30	43.50	42.10	2.24E+04	1.62E+04
4/9/2018 17:52:40	45.30	44.60	42.40	45.30	42.10	3.39E+04	1.62E+04
4/9/2018 17:53:40	47.10	46.30	42.50	47.10	42.20	5.13E+04	1.66E+04
4/9/2018 17:54:40	49.00	47.00	42.60	49.00	42.20	7.94E+04	1.66E+04
4/9/2018 17:55:40	47.80	46.00	42.80	47.80	42.50	6.03E+04	1.78E+04
4/9/2018 17:56:40	47.00	46.50	43.00	47.00	42.60	5.01E+04	1.82E+04
4/9/2018 17:57:40	49.60	48.50	42.60	49.60	42.30	9.12E+04	1.70E+04
4/9/2018 17:58:40	44.00	42.90	42.30	44.00	41.50	2.51E+04	1.41E+04
4/9/2018 17:59:40	49.30	47.30	42.90	49.30	42.50	8.51E+04	1.78E+04
4/9/2018 18:00:40	45.00	44.00	42.80	45.00	42.50	3.16E+04	1.78E+04
4/9/2018 18:01:40	43.00	42.70	42.40	43.00	42.20	2.00E+04	1.66E+04
4/9/2018 18:02:40	45.40	44.20	42.30	45.40	42.10	3.47E+04	1.62E+04
4/9/2018 18:03:40	46.60	44.50	42.30	46.60	42.00	4.57E+04	1.58E+04
4/9/2018 18:04:40	43.40	42.80	42.40	43.40	42.10	2.19E+04	1.62E+04
4/9/2018 18:05:40	60.30	55.50	43.90	60.30	42.90	1.07E+06	1.95E+04
4/9/2018 18:06:40	49.10	47.40	43.50	49.10	42.80	8.13E+04	1.91E+04
4/9/2018 18:07:40	48.80	47.50	45.20	48.80	43.70	7.59E+04	2.34E+04
4/9/2018 18:08:40	45.80	43.80	42.80	45.80	42.40	3.80E+04	1.74E+04
4/9/2018 18:09:40	49.00	46.80	42.50	49.00	42.20	7.94E+04	1.66E+04
4/9/2018 18:10:40	50.70	48.80	42.90	50.70	42.30	1.17E+05	1.70E+04
4/9/2018 18:11:40	46.60	45.70	44.00	46.60	42.90	4.57E+04	1.95E+04
4/9/2018 18:12:40	50.00	45.90	42.60	50.00	42.20	1.00E+05	1.66E+04
4/9/2018 18:13:40	50.30	49.20	43.00	50.30	42.50	1.07E+05	1.78E+04
4/9/2018 18:14:40	52.00	49.70	42.70	52.00	42.40	1.58E+05	1.74E+04
4/9/2018 18:15:40	50.60	47.90	42.90	50.60	42.40	1.15E+05	1.74E+04
4/9/2018 18:16:40	42.90	42.70	42.30	42.90	42.00	1.95E+04	1.58E+04
4/9/2018 18:17:40	42.30	42.30	42.00	42.30	41.80	1.70E+04	1.51E+04
4/9/2018 18:18:40	46.60	42.60	41.70	46.60	41.50	4.57E+04	1.41E+04
4/9/2018 18:19:40	50.50	48.10	41.60	50.50	41.30	1.12E+05	1.35E+04
4/9/2018 18:20:40	51.50	49.70	43.10	51.50	42.50	1.41E+05	1.78E+04
4/9/2018 18:21:40	49.30	47.80	42.90	49.30	42.40	8.51E+04	1.74E+04
4/9/2018 18:22:40	46.80	45.60	41.50	46.80	40.90	4.79E+04	1.23E+04
4/9/2018 18:23:40	48.30	46.20	41.10	48.30	40.60	6.76E+04	1.15E+04
4/9/2018 18:24:40	42.30	41.70	40.80	42.30	40.60	1.70E+04	1.15E+04
4/9/2018 18:25:40	43.80	43.00	41.60	43.80	41.20	2.40E+04	1.32E+04
4/9/2018 18:26:40	44.50	43.60	41.70	44.50	41.40	2.82E+04	1.38E+04
4/9/2018 18:27:40	46.60	45.60	41.80	46.60	41.50	4.57E+04	1.41E+04
4/9/2018 18:28:40	46.70	45.10	41.60	46.70	41.30	4.68E+04	1.35E+04
4/9/2018 18:29:40	43.90	42.40	41.80	43.90	41.60	2.45E+04	1.45E+04
4/9/2018 18:30:40	51.00	49.20	42.20	51.00	42.00	1.26E+05	1.58E+04
4/9/2018 18:31:40	48.90	47.00	42.20	48.90	42.00	7.76E+04	1.58E+04

4/9/2018 18:32:40	49.70	46.80	42.40	49.70	42.20	9.33E+04	1.66E+04
4/9/2018 18:33:40	45.90	44.40	41.90	45.90	41.60	3.89E+04	1.45E+04
4/9/2018 18:34:40	46.80	44.40	41.70	46.80	41.40	4.79E+04	1.38E+04
4/9/2018 18:35:40	46.70	45.00	41.90	46.70	41.60	4.68E+04	1.45E+04
4/9/2018 18:36:40	42.30	42.00	41.70	42.30	41.50	1.70E+04	1.41E+04
4/9/2018 18:37:40	48.50	47.10	41.90	48.50	41.70	7.08E+04	1.48E+04
4/9/2018 18:38:40	46.90	44.80	42.20	46.90	41.90	4.90E+04	1.55E+04
4/9/2018 18:39:40	45.50	44.40	41.80	45.50	41.30	3.55E+04	1.35E+04
4/9/2018 18:40:40	47.60	46.60	41.90	47.60	41.60	5.75E+04	1.45E+04
4/9/2018 18:41:40	46.10	44.70	41.60	46.10	41.30	4.07E+04	1.35E+04
4/9/2018 18:42:40	41.80	41.60	41.40	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 18:43:40	47.10	44.40	41.20	47.10	41.00	5.13E+04	1.26E+04
4/9/2018 18:44:40	50.20	47.70	41.40	50.20	41.10	1.05E+05	1.29E+04
4/9/2018 18:45:40	41.80	41.40	41.10	41.80	40.90	1.51E+04	1.23E+04
4/9/2018 18:46:40	52.50	51.20	41.10	52.50	40.90	1.78E+05	1.23E+04
4/9/2018 18:47:40	50.40	47.60	41.10	50.40	40.80	1.10E+05	1.20E+04
4/9/2018 18:48:40	51.00	49.10	40.70	51.00	40.40	1.26E+05	1.10E+04
4/9/2018 18:49:40	46.60	45.20	41.10	46.60	40.80	4.57E+04	1.20E+04
4/9/2018 18:50:40	42.80	41.90	41.00	42.80	40.60	1.91E+04	1.15E+04
4/9/2018 18:51:40	49.00	47.10	40.80	49.00	40.60	7.94E+04	1.15E+04
4/9/2018 18:52:40	50.10	48.70	43.00	50.10	41.90	1.02E+05	1.55E+04
4/9/2018 18:53:40	45.00	44.30	41.40	45.00	41.10	3.16E+04	1.29E+04
4/9/2018 18:54:40	49.40	47.40	41.40	49.40	40.80	8.71E+04	1.20E+04
4/9/2018 18:55:40	50.80	49.30	40.60	50.80	40.40	1.20E+05	1.10E+04
4/9/2018 18:56:40	53.50	50.50	40.60	53.50	40.30	2.24E+05	1.07E+04
4/9/2018 18:57:40	40.70	40.60	40.40	40.70	40.20	1.17E+04	1.05E+04
4/9/2018 18:58:40	40.70	40.60	40.30	40.70	40.10	1.17E+04	1.02E+04
4/9/2018 18:59:40	40.60	40.60	40.30	40.60	40.00	1.15E+04	1.00E+04
4/9/2018 19:00:40	53.90	51.90	40.50	53.90	40.00	2.45E+05	1.00E+04
4/9/2018 19:01:40	52.00	49.60	41.20	52.00	40.80	1.58E+05	1.20E+04
4/9/2018 19:02:40	48.90	44.40	40.50	48.90	40.30	7.76E+04	1.07E+04
4/9/2018 19:03:40	46.50	45.20	40.80	46.50	40.50	4.47E+04	1.12E+04
4/9/2018 19:04:40	47.00	42.70	40.90	47.00	40.60	5.01E+04	1.15E+04
4/9/2018 19:05:40	51.60	50.00	41.20	51.60	40.70	1.45E+05	1.17E+04
4/9/2018 19:06:40	42.40	41.70	40.70	42.40	40.40	1.74E+04	1.10E+04
4/9/2018 19:07:40	51.80	49.80	44.60	51.80	41.70	1.51E+05	1.48E+04
4/9/2018 19:08:40	47.30	45.60	41.60	47.30	40.80	5.37E+04	1.20E+04
4/9/2018 19:09:40	47.70	46.80	41.00	47.70	40.60	5.89E+04	1.15E+04
4/9/2018 19:10:40	46.00	42.80	40.80	46.00	40.40	3.98E+04	1.10E+04
4/9/2018 19:11:40	45.80	44.30	40.30	45.80	40.00	3.80E+04	1.00E+04
4/9/2018 19:12:40	51.40	47.40	40.30	51.40	40.00	1.38E+05	1.00E+04
4/9/2018 19:13:40	52.90	51.00	40.60	52.90	40.20	1.95E+05	1.05E+04
4/9/2018 19:14:40	47.60	46.70	40.40	47.60	40.00	5.75E+04	1.00E+04
4/9/2018 19:15:40	54.60	51.70	41.00	54.60	40.20	2.88E+05	1.05E+04
4/9/2018 19:16:40	56.30	53.20	44.40	56.30	43.50	4.27E+05	2.24E+04
4/9/2018 19:17:40	48.90	48.20	40.90	48.90	40.30	7.76E+04	1.07E+04
4/9/2018 19:18:40	40.90	40.60	40.20	40.90	39.90	1.23E+04	9.77E+03
4/9/2018 19:19:40	40.50	40.40	40.20	40.50	39.90	1.12E+04	9.77E+03
4/9/2018 19:20:40	41.50	41.00	40.20	41.50	39.90	1.41E+04	9.77E+03
4/9/2018 19:21:40	43.30	42.00	40.60	43.30	40.30	2.14E+04	1.07E+04
4/9/2018 19:22:40	54.60	50.10	40.70	54.60	40.30	2.88E+05	1.07E+04
4/9/2018 19:23:40	57.20	54.50	49.00	57.20	46.50	5.25E+05	4.47E+04

4/9/2018 19:24:40	53.90	52.40	43.30	53.90	42.60	2.45E+05	1.82E+04
4/9/2018 19:25:40	47.90	46.90	40.30	47.90	39.90	6.17E+04	9.77E+03
4/9/2018 19:26:40	47.80	46.80	40.20	47.80	39.90	6.03E+04	9.77E+03
4/9/2018 19:27:40	50.40	48.00	41.70	50.40	40.70	1.10E+05	1.17E+04
4/9/2018 19:28:40	47.20	43.90	40.50	47.20	40.20	5.25E+04	1.05E+04
4/9/2018 19:29:40	48.30	46.60	40.20	48.30	39.80	6.76E+04	9.55E+03
4/9/2018 19:30:40	47.40	46.80	40.10	47.40	39.80	5.50E+04	9.55E+03
4/9/2018 19:31:40	51.50	49.40	41.40	51.50	40.80	1.41E+05	1.20E+04
4/9/2018 19:32:40	48.10	47.00	40.70	48.10	40.40	6.46E+04	1.10E+04
4/9/2018 19:33:40	43.40	42.10	40.50	43.40	40.10	2.19E+04	1.02E+04
4/9/2018 19:34:40	49.60	48.00	40.30	49.60	39.90	9.12E+04	9.77E+03
4/9/2018 19:35:40	53.10	50.70	40.50	53.10	40.10	2.04E+05	1.02E+04
4/9/2018 19:36:40	57.50	54.00	46.80	57.50	44.90	5.62E+05	3.09E+04
4/9/2018 19:37:40	51.00	46.40	41.90	51.00	40.90	1.26E+05	1.23E+04
4/9/2018 19:38:40	42.50	41.60	40.30	42.50	39.90	1.78E+04	9.77E+03
4/9/2018 19:39:40	40.70	40.40	40.00	40.70	39.80	1.17E+04	9.55E+03
4/9/2018 19:40:40	42.70	40.50	40.10	42.70	39.90	1.86E+04	9.77E+03
4/9/2018 19:41:40	55.70	52.10	40.20	55.70	39.90	3.72E+05	9.77E+03
4/9/2018 19:42:40	54.50	49.00	42.40	54.50	41.40	2.82E+05	1.38E+04
4/9/2018 19:43:40	49.30	44.00	40.40	49.30	40.00	8.51E+04	1.00E+04
4/9/2018 19:44:40	52.40	50.70	41.90	52.40	41.00	1.74E+05	1.26E+04
4/9/2018 19:45:40	44.50	41.10	40.10	44.50	39.80	2.82E+04	9.55E+03
4/9/2018 19:46:40	41.10	40.70	40.10	41.10	39.80	1.29E+04	9.55E+03
4/9/2018 19:47:40	40.80	40.70	40.20	40.80	39.90	1.20E+04	9.77E+03
4/9/2018 19:48:40	40.60	40.50	40.20	40.60	39.90	1.15E+04	9.77E+03
4/9/2018 19:49:40	50.90	48.40	40.40	50.90	40.00	1.23E+05	1.00E+04
4/9/2018 19:50:40	46.20	44.10	40.30	46.20	40.00	4.17E+04	1.00E+04
4/9/2018 19:51:40	43.60	42.50	40.50	43.60	40.10	2.29E+04	1.02E+04
4/9/2018 19:52:40	52.40	50.70	40.50	52.40	40.20	1.74E+05	1.05E+04
4/9/2018 19:53:40	40.50	40.40	40.10	40.50	39.90	1.12E+04	9.77E+03
4/9/2018 19:54:40	48.10	44.90	40.40	48.10	40.00	6.46E+04	1.00E+04
4/9/2018 19:55:40	48.40	47.00	41.60	48.40	41.10	6.92E+04	1.29E+04
4/9/2018 19:56:40	49.90	46.50	41.00	49.90	40.20	9.77E+04	1.05E+04
4/9/2018 19:57:40	51.70	42.40	40.40	51.70	40.00	1.48E+05	1.00E+04
4/9/2018 19:58:40	50.60	47.30	40.00	50.60	39.80	1.15E+05	9.55E+03
4/9/2018 19:59:40	40.40	40.30	40.10	40.40	39.80	1.10E+04	9.55E+03
4/9/2018 20:00:40	48.90	46.60	40.30	48.90	39.90	7.76E+04	9.77E+03
4/9/2018 20:01:40	42.60	41.90	40.50	42.60	40.10	1.82E+04	1.02E+04
4/9/2018 20:02:40	42.30	41.10	40.30	42.30	40.00	1.70E+04	1.00E+04
4/9/2018 20:03:40	51.90	49.70	40.30	51.90	40.00	1.55E+05	1.00E+04
4/9/2018 20:04:40	48.60	42.10	40.20	48.60	39.90	7.24E+04	9.77E+03
4/9/2018 20:05:40	43.50	41.50	40.30	43.50	40.00	2.24E+04	1.00E+04
4/9/2018 20:06:40	42.20	41.50	40.50	42.20	40.20	1.66E+04	1.05E+04
4/9/2018 20:07:40	50.10	47.00	41.20	50.10	40.50	1.02E+05	1.12E+04
4/9/2018 20:08:40	41.40	41.00	40.40	41.40	40.00	1.38E+04	1.00E+04
4/9/2018 20:09:40	43.50	41.80	40.50	43.50	40.10	2.24E+04	1.02E+04
4/9/2018 20:10:40	42.90	42.00	40.70	42.90	40.20	1.95E+04	1.05E+04
4/9/2018 20:11:40	48.90	46.90	40.40	48.90	40.20	7.76E+04	1.05E+04
4/9/2018 20:12:40	40.80	40.50	40.20	40.80	40.00	1.20E+04	1.00E+04
4/9/2018 20:13:40	50.30	48.40	40.40	50.30	40.00	1.07E+05	1.00E+04
4/9/2018 20:14:40	43.90	41.10	40.20	43.90	39.90	2.45E+04	9.77E+03
4/9/2018 20:15:40	47.80	44.50	40.40	47.80	40.00	6.03E+04	1.00E+04

4/9/2018 20:16:40	44.30	42.40	40.80	44.30	40.40	2.69E+04	1.10E+04
4/9/2018 20:17:40	41.20	40.90	40.30	41.20	40.00	1.32E+04	1.00E+04
4/9/2018 20:18:40	43.60	42.40	40.80	43.60	40.50	2.29E+04	1.12E+04
4/9/2018 20:19:40	49.10	46.80	40.70	49.10	40.30	8.13E+04	1.07E+04
4/9/2018 20:20:40	48.70	47.70	41.20	48.70	40.80	7.41E+04	1.20E+04
4/9/2018 20:21:40	41.00	40.90	40.30	41.00	40.00	1.26E+04	1.00E+04
4/9/2018 20:22:40	49.40	46.10	40.30	49.40	40.00	8.71E+04	1.00E+04
4/9/2018 20:23:40	46.80	45.80	40.40	46.80	40.10	4.79E+04	1.02E+04
4/9/2018 20:24:40	46.10	44.60	40.40	46.10	40.10	4.07E+04	1.02E+04
4/9/2018 20:25:40	46.90	42.30	40.40	46.90	40.20	4.90E+04	1.05E+04
4/9/2018 20:26:40	46.90	45.00	40.90	46.90	40.60	4.90E+04	1.15E+04
4/9/2018 20:27:40	45.70	43.40	40.30	45.70	40.00	3.72E+04	1.00E+04
4/9/2018 20:28:40	40.90	40.60	40.20	40.90	40.00	1.23E+04	1.00E+04
4/9/2018 20:29:40	40.50	40.40	40.10	40.50	39.90	1.12E+04	9.77E+03
4/9/2018 20:30:40	41.10	41.00	40.20	41.10	40.00	1.29E+04	1.00E+04
4/9/2018 20:31:40	49.40	46.50	40.50	49.40	40.20	8.71E+04	1.05E+04
4/9/2018 20:32:40	44.60	42.10	40.30	44.60	40.00	2.88E+04	1.00E+04
4/9/2018 20:33:40	51.10	50.30	43.50	51.10	42.50	1.29E+05	1.78E+04
4/9/2018 20:34:40	49.70	48.30	42.20	49.70	41.50	9.33E+04	1.41E+04
4/9/2018 20:35:40	47.40	46.00	42.40	47.40	41.60	5.50E+04	1.45E+04
4/9/2018 20:36:40	44.10	42.40	41.10	44.10	40.70	2.57E+04	1.17E+04
4/9/2018 20:37:40	43.90	43.20	41.50	43.90	40.90	2.45E+04	1.23E+04
4/9/2018 20:38:40	50.30	47.00	41.20	50.30	40.70	1.07E+05	1.17E+04
4/9/2018 20:39:40	41.10	40.80	40.40	41.10	40.10	1.29E+04	1.02E+04
4/9/2018 20:40:40	48.50	46.80	40.70	48.50	40.20	7.08E+04	1.05E+04
4/9/2018 20:41:40	50.70	48.90	42.90	50.70	41.60	1.17E+05	1.45E+04
4/9/2018 20:42:40	48.00	46.70	40.60	48.00	40.10	6.31E+04	1.02E+04
4/9/2018 20:43:40	40.70	40.60	40.30	40.70	40.10	1.17E+04	1.02E+04
4/9/2018 20:44:40	48.90	47.40	40.40	48.90	40.10	7.76E+04	1.02E+04
4/9/2018 20:45:40	46.80	45.00	40.30	46.80	40.00	4.79E+04	1.00E+04
4/9/2018 20:46:40	41.40	40.90	40.50	41.40	40.30	1.38E+04	1.07E+04
4/9/2018 20:47:40	49.20	48.30	41.20	49.20	40.70	8.32E+04	1.17E+04
4/9/2018 20:48:40	43.20	42.30	40.50	43.20	40.20	2.09E+04	1.05E+04
4/9/2018 20:49:40	41.30	40.90	40.30	41.30	40.00	1.35E+04	1.00E+04
4/9/2018 20:50:40	44.50	42.60	40.10	44.50	39.90	2.82E+04	9.77E+03
4/9/2018 20:51:40	40.40	40.40	40.10	40.40	39.90	1.10E+04	9.77E+03
4/9/2018 20:52:40	41.00	40.50	40.20	41.00	40.00	1.26E+04	1.00E+04
4/9/2018 20:53:40	48.50	47.50	40.50	48.50	40.20	7.08E+04	1.05E+04
4/9/2018 20:54:40	40.60	40.60	40.30	40.60	40.00	1.15E+04	1.00E+04
4/9/2018 20:55:40	40.50	40.50	40.30	40.50	40.00	1.12E+04	1.00E+04
4/9/2018 20:56:40	49.60	47.90	40.40	49.60	40.20	9.12E+04	1.05E+04
4/9/2018 20:57:40	51.90	48.90	40.70	51.90	40.40	1.55E+05	1.10E+04
4/9/2018 20:58:40	41.50	40.70	40.40	41.50	40.10	1.41E+04	1.02E+04
4/9/2018 20:59:40	42.30	41.70	40.40	42.30	40.10	1.70E+04	1.02E+04
4/9/2018 21:00:40	43.70	41.40	40.30	43.70	40.10	2.34E+04	1.02E+04
4/9/2018 21:01:40	40.80	40.60	40.30	40.80	40.00	1.20E+04	1.00E+04
4/9/2018 21:02:40	40.60	40.50	40.30	40.60	40.10	1.15E+04	1.02E+04
4/9/2018 21:03:40	41.70	40.60	40.30	41.70	40.10	1.48E+04	1.02E+04
4/9/2018 21:04:40	46.30	44.40	40.50	46.30	40.30	4.27E+04	1.07E+04
4/9/2018 21:05:40	42.60	41.50	40.50	42.60	40.30	1.82E+04	1.07E+04
4/9/2018 21:06:40	47.40	46.30	41.10	47.40	39.90	5.50E+04	9.77E+03
4/9/2018 21:07:40	47.60	46.00	40.70	47.60	40.40	5.75E+04	1.10E+04

4/9/2018 21:08:40	40.80	40.60	40.30	40.80	40.00	1.20E+04	1.00E+04
4/9/2018 21:09:40	42.80	41.90	40.30	42.80	40.00	1.91E+04	1.00E+04
4/9/2018 21:10:40	45.10	43.00	41.10	45.10	40.40	3.24E+04	1.10E+04
4/9/2018 21:11:40	45.90	44.30	40.30	45.90	40.00	3.89E+04	1.00E+04
4/9/2018 21:12:40	50.50	47.90	43.30	50.50	42.50	1.12E+05	1.78E+04
4/9/2018 21:13:40	44.70	43.50	41.00	44.70	40.50	2.95E+04	1.12E+04
4/9/2018 21:14:40	41.90	41.20	40.40	41.90	40.10	1.55E+04	1.02E+04
4/9/2018 21:15:40	40.80	40.60	40.30	40.80	40.00	1.20E+04	1.00E+04
4/9/2018 21:16:40	40.80	40.50	40.10	40.80	39.90	1.20E+04	9.77E+03
4/9/2018 21:17:40	47.90	46.70	40.30	47.90	40.00	6.17E+04	1.00E+04
4/9/2018 21:18:40	51.30	50.20	40.30	51.30	40.00	1.35E+05	1.00E+04
4/9/2018 21:19:40	40.50	40.40	40.20	40.50	39.90	1.12E+04	9.77E+03
4/9/2018 21:20:40	40.60	40.50	40.30	40.60	40.00	1.15E+04	1.00E+04
4/9/2018 21:21:40	44.90	41.90	40.50	44.90	40.20	3.09E+04	1.05E+04
4/9/2018 21:22:40	46.60	44.60	40.70	46.60	40.50	4.57E+04	1.12E+04
4/9/2018 21:23:40	40.90	40.80	40.60	40.90	40.40	1.23E+04	1.10E+04
4/9/2018 21:24:40	45.80	42.00	40.60	45.80	40.40	3.80E+04	1.10E+04
4/9/2018 21:25:40	48.70	46.50	40.90	48.70	40.60	7.41E+04	1.15E+04
4/9/2018 21:26:40	42.60	42.20	40.90	42.60	40.60	1.82E+04	1.15E+04
4/9/2018 21:27:40	41.90	41.50	40.70	41.90	40.40	1.55E+04	1.10E+04
4/9/2018 21:28:40	40.70	40.70	40.40	40.70	40.10	1.17E+04	1.02E+04
4/9/2018 21:29:40	40.60	40.50	40.30	40.60	40.10	1.15E+04	1.02E+04
4/9/2018 21:30:40	44.10	42.50	40.40	44.10	40.20	2.57E+04	1.05E+04
4/9/2018 21:31:40	52.00	49.70	42.10	52.00	41.40	1.58E+05	1.38E+04
4/9/2018 21:32:40	44.80	43.60	41.70	44.80	41.20	3.02E+04	1.32E+04
4/9/2018 21:33:40	43.30	42.00	41.00	43.30	40.80	2.14E+04	1.20E+04
4/9/2018 21:34:40	41.10	41.00	40.60	41.10	40.30	1.29E+04	1.07E+04
4/9/2018 21:35:40	40.90	40.80	40.50	40.90	40.30	1.23E+04	1.07E+04
4/9/2018 21:36:40	40.70	40.70	40.50	40.70	40.30	1.17E+04	1.07E+04
4/9/2018 21:37:40	40.90	40.80	40.60	40.90	40.40	1.23E+04	1.10E+04
4/9/2018 21:38:40	47.60	46.00	40.60	47.60	40.40	5.75E+04	1.10E+04
4/9/2018 21:39:40	47.40	41.90	40.60	47.40	40.40	5.50E+04	1.10E+04
4/9/2018 21:40:40	40.90	40.80	40.50	40.90	40.30	1.23E+04	1.07E+04
4/9/2018 21:41:40	40.80	40.80	40.60	40.80	40.30	1.20E+04	1.07E+04
4/9/2018 21:42:40	40.90	40.80	40.60	40.90	40.30	1.23E+04	1.07E+04
4/9/2018 21:43:40	40.80	40.80	40.60	40.80	40.40	1.20E+04	1.10E+04
4/9/2018 21:44:40	40.80	40.70	40.50	40.80	40.30	1.20E+04	1.07E+04
4/9/2018 21:45:40	40.80	40.80	40.60	40.80	40.40	1.20E+04	1.10E+04
4/9/2018 21:46:40	48.60	47.00	41.00	48.60	40.50	7.24E+04	1.12E+04
4/9/2018 21:47:40	51.50	48.90	42.90	51.50	42.00	1.41E+05	1.58E+04
4/9/2018 21:48:40	42.90	42.10	40.80	42.90	40.60	1.95E+04	1.15E+04
4/9/2018 21:49:40	41.70	41.10	40.60	41.70	40.40	1.48E+04	1.10E+04
4/9/2018 21:50:40	46.50	45.80	40.60	46.50	40.40	4.47E+04	1.10E+04
4/9/2018 21:51:40	41.30	41.10	40.60	41.30	40.30	1.35E+04	1.07E+04
4/9/2018 21:52:40	48.80	45.40	40.60	48.80	40.30	7.59E+04	1.07E+04
4/9/2018 21:53:40	42.40	41.40	40.80	42.40	40.50	1.74E+04	1.12E+04
4/9/2018 21:54:40	42.20	41.70	40.90	42.20	40.60	1.66E+04	1.15E+04
4/9/2018 21:55:40	41.10	41.00	40.80	41.10	40.50	1.29E+04	1.12E+04
4/9/2018 21:56:40	41.20	41.20	40.90	41.20	40.60	1.32E+04	1.15E+04
4/9/2018 21:57:40	41.00	41.00	40.70	41.00	40.40	1.26E+04	1.10E+04
4/9/2018 21:58:40	42.40	41.50	40.80	42.40	40.50	1.74E+04	1.12E+04
4/9/2018 21:59:40	47.50	45.40	41.40	47.50	40.80	5.62E+04	1.20E+04

4/9/2018 22:00:40	43.20	41.10	40.70	43.20	40.50	2.09E+04	1.12E+04
4/9/2018 22:01:40	46.20	44.30	40.90	46.20	40.60	4.17E+04	1.15E+04
4/9/2018 22:02:40	48.10	46.80	40.90	48.10	40.60	6.46E+04	1.15E+04
4/9/2018 22:03:40	41.30	41.10	40.60	41.30	40.40	1.35E+04	1.10E+04
4/9/2018 22:04:40	41.00	40.90	40.60	41.00	40.40	1.26E+04	1.10E+04
4/9/2018 22:05:40	40.80	40.80	40.50	40.80	40.30	1.20E+04	1.07E+04
4/9/2018 22:06:40	40.90	40.80	40.50	40.90	40.30	1.23E+04	1.07E+04
4/9/2018 22:07:40	40.80	40.80	40.60	40.80	40.30	1.20E+04	1.07E+04
4/9/2018 22:08:40	41.30	41.00	40.60	41.30	40.40	1.35E+04	1.10E+04
4/9/2018 22:09:40	43.40	42.60	41.30	43.40	40.90	2.19E+04	1.23E+04
4/9/2018 22:10:40	50.00	48.40	41.60	50.00	40.80	1.00E+05	1.20E+04
4/9/2018 22:11:40	46.30	45.50	42.00	46.30	41.10	4.27E+04	1.29E+04
4/9/2018 22:12:40	49.00	47.50	41.10	49.00	40.70	7.94E+04	1.17E+04
4/9/2018 22:13:40	41.30	41.20	40.80	41.30	40.50	1.35E+04	1.12E+04
4/9/2018 22:14:40	41.00	40.90	40.70	41.00	40.40	1.26E+04	1.10E+04
4/9/2018 22:15:40	41.00	40.90	40.60	41.00	40.40	1.26E+04	1.10E+04
4/9/2018 22:16:40	53.10	51.50	40.70	53.10	40.50	2.04E+05	1.12E+04
4/9/2018 22:17:40	44.30	42.30	40.90	44.30	40.70	2.69E+04	1.17E+04
4/9/2018 22:18:40	44.20	42.40	40.90	44.20	40.60	2.63E+04	1.15E+04
4/9/2018 22:19:40	55.60	52.80	46.40	55.60	43.70	3.63E+05	2.34E+04
4/9/2018 22:20:40	55.40	52.10	46.20	55.40	42.70	3.47E+05	1.86E+04
4/9/2018 22:21:40	45.10	43.80	41.80	45.10	41.50	3.24E+04	1.41E+04
4/9/2018 22:22:40	44.60	43.30	41.70	44.60	41.10	2.88E+04	1.29E+04
4/9/2018 22:23:40	43.20	42.80	41.30	43.20	41.00	2.09E+04	1.26E+04
4/9/2018 22:24:40	42.00	41.50	40.70	42.00	40.40	1.58E+04	1.10E+04
4/9/2018 22:25:40	41.60	41.00	40.70	41.60	40.40	1.45E+04	1.10E+04
4/9/2018 22:26:40	41.20	41.00	40.70	41.20	40.50	1.32E+04	1.12E+04
4/9/2018 22:27:40	51.60	49.50	40.90	51.60	40.60	1.45E+05	1.15E+04
4/9/2018 22:28:40	42.10	41.40	40.90	42.10	40.60	1.62E+04	1.15E+04
4/9/2018 22:29:40	41.30	41.10	40.80	41.30	40.50	1.35E+04	1.12E+04
4/9/2018 22:30:40	41.30	41.00	40.80	41.30	40.60	1.35E+04	1.15E+04
4/9/2018 22:31:40	41.40	41.20	40.90	41.40	40.70	1.38E+04	1.17E+04
4/9/2018 22:32:40	48.20	46.70	40.80	48.20	40.60	6.61E+04	1.15E+04
4/9/2018 22:33:40	41.60	41.00	40.80	41.60	40.60	1.45E+04	1.15E+04
4/9/2018 22:34:40	41.50	41.20	40.90	41.50	40.70	1.41E+04	1.17E+04
4/9/2018 22:35:40	44.20	42.00	40.80	44.20	40.60	2.63E+04	1.15E+04
4/9/2018 22:36:40	46.20	45.30	41.00	46.20	40.70	4.17E+04	1.17E+04
4/9/2018 22:37:40	49.90	48.80	41.00	49.90	40.70	9.77E+04	1.17E+04
4/9/2018 22:38:40	41.90	41.20	40.90	41.90	40.70	1.55E+04	1.17E+04
4/9/2018 22:39:40	47.80	42.80	40.80	47.80	40.60	6.03E+04	1.15E+04
4/9/2018 22:40:40	51.10	46.70	41.20	51.10	40.90	1.29E+05	1.23E+04
4/9/2018 22:41:40	51.10	48.50	41.00	51.10	40.80	1.29E+05	1.20E+04
4/9/2018 22:42:40	41.30	41.10	40.80	41.30	40.60	1.35E+04	1.15E+04
4/9/2018 22:43:40	57.40	53.50	41.00	57.40	40.60	5.50E+05	1.15E+04
4/9/2018 22:44:40	56.50	45.30	41.00	56.50	40.70	4.47E+05	1.17E+04
4/9/2018 22:45:40	41.40	41.10	40.90	41.40	40.60	1.38E+04	1.15E+04
4/9/2018 22:46:40	41.30	41.10	40.80	41.30	40.60	1.35E+04	1.15E+04
4/9/2018 22:47:40	48.60	45.60	41.00	48.60	40.80	7.24E+04	1.20E+04
4/9/2018 22:48:40	49.00	46.30	41.10	49.00	40.80	7.94E+04	1.20E+04
4/9/2018 22:49:40	41.50	41.30	41.00	41.50	40.70	1.41E+04	1.17E+04
4/9/2018 22:50:40	41.50	41.20	41.00	41.50	40.80	1.41E+04	1.20E+04
4/9/2018 22:51:40	41.70	41.20	40.90	41.70	40.60	1.48E+04	1.15E+04

4/9/2018 22:52:40	41.60	41.30	41.00	41.60	40.70	1.45E+04	1.17E+04
4/9/2018 22:53:40	41.40	41.30	41.00	41.40	40.70	1.38E+04	1.17E+04
4/9/2018 22:54:40	51.00	49.10	41.00	51.00	40.70	1.26E+05	1.17E+04
4/9/2018 22:55:40	43.80	41.90	41.10	43.80	40.90	2.40E+04	1.23E+04
4/9/2018 22:56:40	41.30	41.20	40.90	41.30	40.60	1.35E+04	1.15E+04
4/9/2018 22:57:40	41.50	41.20	41.00	41.50	40.70	1.41E+04	1.17E+04
4/9/2018 22:58:40	41.40	41.20	41.00	41.40	40.80	1.38E+04	1.20E+04
4/9/2018 22:59:40	41.50	41.30	41.00	41.50	40.80	1.41E+04	1.20E+04
4/9/2018 23:00:40	41.60	41.30	41.00	41.60	40.80	1.45E+04	1.20E+04
4/9/2018 23:01:40	41.40	41.20	41.00	41.40	40.80	1.38E+04	1.20E+04
4/9/2018 23:02:40	41.40	41.30	41.00	41.40	40.80	1.38E+04	1.20E+04
4/9/2018 23:03:40	41.50	41.30	41.00	41.50	40.80	1.41E+04	1.20E+04
4/9/2018 23:04:40	41.50	41.30	41.10	41.50	40.90	1.41E+04	1.23E+04
4/9/2018 23:05:40	42.00	41.50	41.10	42.00	40.90	1.58E+04	1.23E+04
4/9/2018 23:06:40	44.70	42.90	41.60	44.70	41.30	2.95E+04	1.35E+04
4/9/2018 23:07:40	42.20	41.90	41.40	42.20	41.10	1.66E+04	1.29E+04
4/9/2018 23:08:40	47.60	45.50	41.40	47.60	41.10	5.75E+04	1.29E+04
4/9/2018 23:09:40	41.70	41.40	41.20	41.70	41.00	1.48E+04	1.26E+04
4/9/2018 23:10:40	47.10	45.30	41.40	47.10	41.10	5.13E+04	1.29E+04
4/9/2018 23:11:40	42.10	41.40	41.20	42.10	41.00	1.62E+04	1.26E+04
4/9/2018 23:12:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/9/2018 23:13:40	41.60	41.40	41.10	41.60	40.90	1.45E+04	1.23E+04
4/9/2018 23:14:40	43.40	41.80	41.10	43.40	40.90	2.19E+04	1.23E+04
4/9/2018 23:15:40	45.20	44.30	42.80	45.20	42.30	3.31E+04	1.70E+04
4/9/2018 23:16:40	44.30	43.00	41.70	44.30	41.40	2.69E+04	1.38E+04
4/9/2018 23:17:40	42.30	41.80	41.30	42.30	41.00	1.70E+04	1.26E+04
4/9/2018 23:18:40	41.60	41.50	41.20	41.60	41.00	1.45E+04	1.26E+04
4/9/2018 23:19:40	41.80	41.60	41.30	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 23:20:40	41.80	41.50	41.30	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 23:21:40	41.90	41.50	41.30	41.90	41.10	1.55E+04	1.29E+04
4/9/2018 23:22:40	41.60	41.50	41.30	41.60	41.00	1.45E+04	1.26E+04
4/9/2018 23:23:40	41.80	41.60	41.30	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 23:24:40	41.90	41.70	41.40	41.90	41.20	1.55E+04	1.32E+04
4/9/2018 23:25:40	49.80	48.20	41.60	49.80	41.30	9.55E+04	1.35E+04
4/9/2018 23:26:40	45.90	42.40	41.50	45.90	41.20	3.89E+04	1.32E+04
4/9/2018 23:27:40	48.10	46.20	41.30	48.10	41.00	6.46E+04	1.26E+04
4/9/2018 23:28:40	41.60	41.40	41.10	41.60	41.00	1.45E+04	1.26E+04
4/9/2018 23:29:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/9/2018 23:30:40	49.90	48.60	41.50	49.90	41.30	9.77E+04	1.35E+04
4/9/2018 23:31:40	41.70	41.60	41.30	41.70	41.10	1.48E+04	1.29E+04
4/9/2018 23:32:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/9/2018 23:33:40	42.00	41.50	41.30	42.00	41.00	1.58E+04	1.26E+04
4/9/2018 23:34:40	43.70	43.00	41.40	43.70	41.10	2.34E+04	1.29E+04
4/9/2018 23:35:40	43.90	43.10	41.80	43.90	41.40	2.45E+04	1.38E+04
4/9/2018 23:36:40	41.90	41.70	41.40	41.90	41.20	1.55E+04	1.32E+04
4/9/2018 23:37:40	41.70	41.60	41.40	41.70	41.10	1.48E+04	1.29E+04
4/9/2018 23:38:40	41.70	41.60	41.40	41.70	41.20	1.48E+04	1.32E+04
4/9/2018 23:39:40	41.90	41.60	41.40	41.90	41.20	1.55E+04	1.32E+04
4/9/2018 23:40:40	42.10	41.70	41.40	42.10	41.20	1.62E+04	1.32E+04
4/9/2018 23:41:40	41.80	41.70	41.50	41.80	41.20	1.51E+04	1.32E+04
4/9/2018 23:42:40	41.70	41.60	41.40	41.70	41.20	1.48E+04	1.32E+04
4/9/2018 23:43:40	42.20	41.60	41.40	42.20	41.20	1.66E+04	1.32E+04

4/9/2018 23:44:40	48.60	46.50	41.50	48.60	41.30	7.24E+04	1.35E+04
4/9/2018 23:45:40	43.60	42.10	41.40	43.60	41.20	2.29E+04	1.32E+04
4/9/2018 23:46:40	42.10	41.80	41.30	42.10	41.00	1.62E+04	1.26E+04
4/9/2018 23:47:40	41.80	41.50	41.30	41.80	41.00	1.51E+04	1.26E+04
4/9/2018 23:48:40	41.80	41.60	41.30	41.80	40.90	1.51E+04	1.23E+04
4/9/2018 23:49:40	41.80	41.50	41.30	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 23:50:40	42.20	41.50	41.30	42.20	41.10	1.66E+04	1.29E+04
4/9/2018 23:51:40	42.30	41.70	41.30	42.30	41.10	1.70E+04	1.29E+04
4/9/2018 23:52:40	42.40	41.60	41.40	42.40	41.20	1.74E+04	1.32E+04
4/9/2018 23:53:40	42.00	41.50	41.30	42.00	41.10	1.58E+04	1.29E+04
4/9/2018 23:54:40	41.80	41.50	41.30	41.80	41.00	1.51E+04	1.26E+04
4/9/2018 23:55:40	42.40	41.90	41.40	42.40	41.20	1.74E+04	1.32E+04
4/9/2018 23:56:40	42.30	41.60	41.30	42.30	41.10	1.70E+04	1.29E+04
4/9/2018 23:57:40	41.80	41.50	41.30	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 23:58:40	41.80	41.60	41.40	41.80	41.10	1.51E+04	1.29E+04
4/9/2018 23:59:40	41.90	41.70	41.40	41.90	41.20	1.55E+04	1.32E+04
4/10/2018 0:00:40	43.40	42.80	41.50	43.40	41.30	2.19E+04	1.35E+04
4/10/2018 0:01:40	41.80	41.70	41.60	41.80	41.40	1.51E+04	1.38E+04
4/10/2018 0:02:40	42.10	41.80	41.60	42.10	41.40	1.62E+04	1.38E+04
4/10/2018 0:03:40	42.10	41.80	41.70	42.10	41.50	1.62E+04	1.41E+04
4/10/2018 0:04:40	41.80	41.80	41.50	41.80	41.30	1.51E+04	1.35E+04
4/10/2018 0:05:40	41.80	41.80	41.60	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 0:06:40	42.50	41.80	41.70	42.50	41.50	1.78E+04	1.41E+04
4/10/2018 0:07:40	42.10	41.80	41.60	42.10	41.40	1.62E+04	1.38E+04
4/10/2018 0:08:40	42.00	41.90	41.60	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 0:09:40	60.80	58.00	41.80	60.80	41.50	1.20E+06	1.41E+04
4/10/2018 0:10:40	55.90	53.20	42.50	55.90	42.20	3.89E+05	1.66E+04
4/10/2018 0:11:40	42.70	42.20	41.70	42.70	41.40	1.86E+04	1.38E+04
4/10/2018 0:12:40	41.80	41.80	41.60	41.80	41.40	1.51E+04	1.38E+04
4/10/2018 0:13:40	42.00	41.80	41.60	42.00	41.40	1.58E+04	1.38E+04
4/10/2018 0:14:40	45.60	44.30	41.80	45.60	41.50	3.63E+04	1.41E+04
4/10/2018 0:15:40	42.10	41.90	41.80	42.10	41.50	1.62E+04	1.41E+04
4/10/2018 0:16:40	42.20	41.90	41.70	42.20	41.50	1.66E+04	1.41E+04
4/10/2018 0:17:40	54.70	46.00	41.90	54.70	41.70	2.95E+05	1.48E+04
4/10/2018 0:18:40	53.50	52.00	46.00	53.50	44.80	2.24E+05	3.02E+04
4/10/2018 0:19:40	52.60	51.20	41.70	52.60	41.40	1.82E+05	1.38E+04
4/10/2018 0:20:40	43.70	41.90	41.70	43.70	41.50	2.34E+04	1.41E+04
4/10/2018 0:21:40	42.00	41.90	41.70	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 0:22:40	42.10	42.00	41.80	42.10	41.60	1.62E+04	1.45E+04
4/10/2018 0:23:40	42.10	41.90	41.70	42.10	41.50	1.62E+04	1.41E+04
4/10/2018 0:24:40	45.80	42.90	41.80	45.80	41.50	3.80E+04	1.41E+04
4/10/2018 0:25:40	48.30	47.50	41.90	48.30	41.70	6.76E+04	1.48E+04
4/10/2018 0:26:40	42.30	42.00	41.90	42.30	41.70	1.70E+04	1.48E+04
4/10/2018 0:27:40	47.90	46.10	41.90	47.90	41.70	6.17E+04	1.48E+04
4/10/2018 0:28:40	49.20	47.60	42.00	49.20	41.70	8.32E+04	1.48E+04
4/10/2018 0:29:40	42.60	42.20	41.90	42.60	41.70	1.82E+04	1.48E+04
4/10/2018 0:30:40	43.30	42.70	42.00	43.30	41.70	2.14E+04	1.48E+04
4/10/2018 0:31:40	43.00	42.70	42.20	43.00	41.90	2.00E+04	1.55E+04
4/10/2018 0:32:40	42.50	42.30	42.10	42.50	41.90	1.78E+04	1.55E+04
4/10/2018 0:33:40	42.30	42.20	42.00	42.30	41.80	1.70E+04	1.51E+04
4/10/2018 0:34:40	42.20	42.20	42.00	42.20	41.80	1.66E+04	1.51E+04
4/10/2018 0:35:40	42.30	42.10	42.00	42.30	41.80	1.70E+04	1.51E+04

4/10/2018 0:36:40	42.50	42.20	42.00	42.50	41.80	1.78E+04	1.51E+04
4/10/2018 0:37:40	42.70	42.30	42.10	42.70	41.90	1.86E+04	1.55E+04
4/10/2018 0:38:40	46.80	45.90	42.20	46.80	42.00	4.79E+04	1.58E+04
4/10/2018 0:39:40	42.50	42.30	42.20	42.50	42.00	1.78E+04	1.58E+04
4/10/2018 0:40:40	42.40	42.40	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 0:41:40	42.30	42.20	42.00	42.30	41.80	1.70E+04	1.51E+04
4/10/2018 0:42:40	42.50	42.20	42.00	42.50	41.80	1.78E+04	1.51E+04
4/10/2018 0:43:40	42.50	42.20	42.00	42.50	41.90	1.78E+04	1.55E+04
4/10/2018 0:44:40	42.30	42.20	42.00	42.30	41.80	1.70E+04	1.51E+04
4/10/2018 0:45:40	42.30	42.20	42.10	42.30	41.90	1.70E+04	1.55E+04
4/10/2018 0:46:40	42.30	42.30	42.10	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 0:47:40	42.50	42.30	42.10	42.50	41.90	1.78E+04	1.55E+04
4/10/2018 0:48:40	42.40	42.30	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 0:49:40	42.30	42.30	42.20	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 0:50:40	42.60	42.40	42.20	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 0:51:40	42.60	42.50	42.20	42.60	42.00	1.82E+04	1.58E+04
4/10/2018 0:52:40	58.10	55.10	42.90	58.10	42.20	6.46E+05	1.66E+04
4/10/2018 0:53:40	54.50	51.90	43.80	54.50	43.30	2.82E+05	2.14E+04
4/10/2018 0:54:40	47.20	45.90	43.40	47.20	42.90	5.25E+04	1.95E+04
4/10/2018 0:55:40	44.80	43.00	42.50	44.80	42.20	3.02E+04	1.66E+04
4/10/2018 0:56:40	42.70	42.60	42.30	42.70	42.10	1.86E+04	1.62E+04
4/10/2018 0:57:40	42.60	42.40	42.30	42.60	42.00	1.82E+04	1.58E+04
4/10/2018 0:58:40	42.60	42.40	42.20	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 0:59:40	42.40	42.40	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 1:00:40	42.40	42.40	42.20	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:01:40	42.60	42.40	42.20	42.60	42.00	1.82E+04	1.58E+04
4/10/2018 1:02:40	42.50	42.40	42.20	42.50	42.00	1.78E+04	1.58E+04
4/10/2018 1:03:40	49.40	48.50	42.40	49.40	42.20	8.71E+04	1.66E+04
4/10/2018 1:04:40	42.60	42.50	42.30	42.60	42.20	1.82E+04	1.66E+04
4/10/2018 1:05:40	57.30	53.20	42.40	57.30	42.20	5.37E+05	1.66E+04
4/10/2018 1:06:40	54.90	51.90	42.60	54.90	42.40	3.09E+05	1.74E+04
4/10/2018 1:07:40	48.40	46.70	42.40	48.40	42.20	6.92E+04	1.66E+04
4/10/2018 1:08:40	42.80	42.50	42.40	42.80	42.20	1.91E+04	1.66E+04
4/10/2018 1:09:40	42.60	42.50	42.30	42.60	42.20	1.82E+04	1.66E+04
4/10/2018 1:10:40	42.70	42.50	42.30	42.70	42.20	1.86E+04	1.66E+04
4/10/2018 1:11:40	42.60	42.50	42.40	42.60	42.20	1.82E+04	1.66E+04
4/10/2018 1:12:40	42.70	42.50	42.40	42.70	42.20	1.86E+04	1.66E+04
4/10/2018 1:13:40	42.60	42.50	42.30	42.60	42.20	1.82E+04	1.66E+04
4/10/2018 1:14:40	42.60	42.50	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:15:40	46.90	43.40	42.30	46.90	42.20	4.90E+04	1.66E+04
4/10/2018 1:16:40	48.10	47.40	42.40	48.10	42.20	6.46E+04	1.66E+04
4/10/2018 1:17:40	42.60	42.50	42.40	42.60	42.20	1.82E+04	1.66E+04
4/10/2018 1:18:40	42.70	42.50	42.40	42.70	42.20	1.86E+04	1.66E+04
4/10/2018 1:19:40	42.70	42.50	42.40	42.70	42.20	1.86E+04	1.66E+04
4/10/2018 1:20:40	42.60	42.50	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:21:40	42.50	42.40	42.30	42.50	42.10	1.78E+04	1.62E+04
4/10/2018 1:22:40	42.50	42.40	42.30	42.50	42.10	1.78E+04	1.62E+04
4/10/2018 1:23:40	48.60	47.00	42.30	48.60	42.10	7.24E+04	1.62E+04
4/10/2018 1:24:40	47.60	45.00	42.30	47.60	42.10	5.75E+04	1.62E+04
4/10/2018 1:25:40	42.60	42.40	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:26:40	44.70	44.40	42.30	44.70	42.10	2.95E+04	1.62E+04
4/10/2018 1:27:40	45.90	43.70	42.30	45.90	42.10	3.89E+04	1.62E+04

4/10/2018 1:28:40	42.50	42.40	42.30	42.50	42.20	1.78E+04	1.66E+04
4/10/2018 1:29:40	42.50	42.50	42.30	42.50	42.20	1.78E+04	1.66E+04
4/10/2018 1:30:40	44.00	42.50	42.30	44.00	42.10	2.51E+04	1.62E+04
4/10/2018 1:31:40	42.70	42.50	42.30	42.70	42.20	1.86E+04	1.66E+04
4/10/2018 1:32:40	42.60	42.40	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:33:40	42.90	42.40	42.30	42.90	42.10	1.95E+04	1.62E+04
4/10/2018 1:34:40	43.50	42.60	42.30	43.50	42.10	2.24E+04	1.62E+04
4/10/2018 1:35:40	48.40	47.10	42.40	48.40	42.20	6.92E+04	1.66E+04
4/10/2018 1:36:40	46.70	45.70	42.40	46.70	42.20	4.68E+04	1.66E+04
4/10/2018 1:37:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:38:40	42.60	42.50	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:39:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:40:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:41:40	42.60	42.50	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:42:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:43:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:44:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:45:40	42.40	42.50	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:46:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:47:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:48:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:49:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:50:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:51:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:52:40	42.60	42.40	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:53:40	42.60	42.50	42.30	42.60	42.10	1.82E+04	1.62E+04
4/10/2018 1:54:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 1:55:40	42.60	42.50	42.30	42.60	42.20	1.82E+04	1.66E+04
4/10/2018 1:56:40	42.50	42.50	42.40	42.50	42.20	1.78E+04	1.66E+04
4/10/2018 1:57:40	42.50	42.60	42.40	42.50	42.30	1.78E+04	1.70E+04
4/10/2018 1:58:40	42.60	42.60	42.40	42.60	42.30	1.82E+04	1.70E+04
4/10/2018 1:59:40	42.50	42.50	42.40	42.50	42.20	1.78E+04	1.66E+04
4/10/2018 2:00:40	42.50	42.50	42.40	42.50	42.20	1.78E+04	1.66E+04
4/10/2018 2:01:40	50.60	48.30	42.40	50.60	42.20	1.15E+05	1.66E+04
4/10/2018 2:02:40	47.40	46.00	43.00	47.40	42.60	5.50E+04	1.82E+04
4/10/2018 2:03:40	43.40	42.80	42.40	43.40	42.30	2.19E+04	1.70E+04
4/10/2018 2:04:40	42.70	42.50	42.40	42.70	42.20	1.86E+04	1.66E+04
4/10/2018 2:05:40	54.60	52.60	42.50	54.60	42.20	2.88E+05	1.66E+04
4/10/2018 2:06:40	42.70	42.60	42.30	42.70	42.10	1.86E+04	1.62E+04
4/10/2018 2:07:40	42.50	42.40	42.30	42.50	42.20	1.78E+04	1.66E+04
4/10/2018 2:08:40	42.90	42.50	42.30	42.90	42.20	1.95E+04	1.66E+04
4/10/2018 2:09:40	42.40	42.40	42.30	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 2:10:40	42.50	42.40	42.20	42.50	42.10	1.78E+04	1.62E+04
4/10/2018 2:11:40	42.40	42.30	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 2:12:40	45.20	42.90	42.30	45.20	42.10	3.31E+04	1.62E+04
4/10/2018 2:13:40	42.30	42.30	42.20	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:14:40	42.30	42.30	42.20	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:15:40	42.40	42.30	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 2:16:40	42.30	42.30	42.10	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:17:40	42.30	42.30	42.10	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:18:40	42.40	42.30	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 2:19:40	42.50	42.40	42.30	42.50	42.10	1.78E+04	1.62E+04

4/10/2018 2:20:40	42.40	42.40	42.20	42.40	42.10	1.74E+04	1.62E+04
4/10/2018 2:21:40	42.50	42.40	42.20	42.50	42.00	1.78E+04	1.58E+04
4/10/2018 2:22:40	42.40	42.30	42.20	42.40	42.00	1.74E+04	1.58E+04
4/10/2018 2:23:40	42.30	42.30	42.20	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:24:40	42.30	42.30	42.10	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:25:40	42.30	42.30	42.10	42.30	42.00	1.70E+04	1.58E+04
4/10/2018 2:26:40	42.30	42.20	42.00	42.30	41.80	1.70E+04	1.51E+04
4/10/2018 2:27:40	42.20	42.10	41.90	42.20	41.70	1.66E+04	1.48E+04
4/10/2018 2:28:40	42.30	42.10	41.90	42.30	41.70	1.70E+04	1.48E+04
4/10/2018 2:29:40	42.10	42.10	41.90	42.10	41.70	1.62E+04	1.48E+04
4/10/2018 2:30:40	42.10	42.00	41.90	42.10	41.70	1.62E+04	1.48E+04
4/10/2018 2:31:40	42.20	42.10	41.90	42.20	41.70	1.66E+04	1.48E+04
4/10/2018 2:32:40	42.20	42.10	41.90	42.20	41.70	1.66E+04	1.48E+04
4/10/2018 2:33:40	42.10	42.10	42.00	42.10	41.80	1.62E+04	1.51E+04
4/10/2018 2:34:40	42.10	42.00	41.90	42.10	41.70	1.62E+04	1.48E+04
4/10/2018 2:35:40	42.10	42.00	41.90	42.10	41.70	1.62E+04	1.48E+04
4/10/2018 2:36:40	42.10	42.00	41.90	42.10	41.70	1.62E+04	1.48E+04
4/10/2018 2:37:40	42.20	42.10	41.90	42.20	41.70	1.66E+04	1.48E+04
4/10/2018 2:38:40	42.20	42.10	41.90	42.20	41.70	1.66E+04	1.48E+04
4/10/2018 2:39:40	42.10	42.10	42.00	42.10	41.80	1.62E+04	1.51E+04
4/10/2018 2:40:40	43.80	42.10	41.90	43.80	41.80	2.40E+04	1.51E+04
4/10/2018 2:41:40	42.10	42.10	41.90	42.10	41.70	1.62E+04	1.48E+04
4/10/2018 2:42:40	42.20	42.00	41.90	42.20	41.70	1.66E+04	1.48E+04
4/10/2018 2:43:40	45.50	42.40	41.90	45.50	41.70	3.55E+04	1.48E+04
4/10/2018 2:44:40	48.70	48.00	41.90	48.70	41.70	7.41E+04	1.48E+04
4/10/2018 2:45:40	42.20	42.00	41.80	42.20	41.60	1.66E+04	1.45E+04
4/10/2018 2:46:40	42.10	41.90	41.80	42.10	41.60	1.62E+04	1.45E+04
4/10/2018 2:47:40	42.10	42.00	41.80	42.10	41.60	1.62E+04	1.45E+04
4/10/2018 2:48:40	42.00	41.90	41.80	42.00	41.60	1.58E+04	1.45E+04
4/10/2018 2:49:40	42.00	41.90	41.80	42.00	41.60	1.58E+04	1.45E+04
4/10/2018 2:50:40	42.00	42.00	41.80	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 2:51:40	42.00	41.90	41.80	42.00	41.60	1.58E+04	1.45E+04
4/10/2018 2:52:40	42.10	41.90	41.80	42.10	41.60	1.62E+04	1.45E+04
4/10/2018 2:53:40	42.00	41.90	41.70	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 2:54:40	42.00	41.90	41.70	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 2:55:40	42.00	41.90	41.80	42.00	41.40	1.58E+04	1.38E+04
4/10/2018 2:56:40	42.00	41.90	41.80	42.00	41.60	1.58E+04	1.45E+04
4/10/2018 2:57:40	42.00	41.90	41.70	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 2:58:40	42.00	41.80	41.70	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 2:59:40	42.20	41.80	41.70	42.20	41.50	1.66E+04	1.41E+04
4/10/2018 3:00:40	41.90	41.80	41.70	41.90	41.50	1.55E+04	1.41E+04
4/10/2018 3:01:40	45.90	44.50	41.70	45.90	41.50	3.89E+04	1.41E+04
4/10/2018 3:02:40	41.90	41.80	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:03:40	41.80	41.80	41.60	41.80	41.40	1.51E+04	1.38E+04
4/10/2018 3:04:40	41.90	41.80	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:05:40	41.90	41.80	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:06:40	41.90	41.80	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:07:40	42.00	41.80	41.60	42.00	41.50	1.58E+04	1.41E+04
4/10/2018 3:08:40	42.10	41.80	41.60	42.10	41.40	1.62E+04	1.38E+04
4/10/2018 3:09:40	44.30	42.40	41.60	44.30	41.40	2.69E+04	1.38E+04
4/10/2018 3:10:40	49.50	48.50	43.70	49.50	42.70	8.91E+04	1.86E+04
4/10/2018 3:11:40	45.30	42.90	41.80	45.30	41.60	3.39E+04	1.45E+04

4/10/2018 3:12:40	42.00	41.80	41.60	42.00	41.40	1.58E+04	1.38E+04
4/10/2018 3:13:40	42.00	41.80	41.60	42.00	41.40	1.58E+04	1.38E+04
4/10/2018 3:14:40	41.90	41.70	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:15:40	43.70	41.80	41.60	43.70	41.40	2.34E+04	1.38E+04
4/10/2018 3:16:40	42.00	41.70	41.60	42.00	41.40	1.58E+04	1.38E+04
4/10/2018 3:17:40	41.90	41.80	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:18:40	41.90	41.80	41.60	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:19:40	41.80	41.70	41.60	41.80	41.40	1.51E+04	1.38E+04
4/10/2018 3:20:40	41.80	41.70	41.50	41.80	41.30	1.51E+04	1.35E+04
4/10/2018 3:21:40	41.70	41.70	41.50	41.70	41.30	1.48E+04	1.35E+04
4/10/2018 3:22:40	41.80	41.70	41.50	41.80	41.30	1.51E+04	1.35E+04
4/10/2018 3:23:40	41.90	41.70	41.50	41.90	41.40	1.55E+04	1.38E+04
4/10/2018 3:24:40	41.70	41.70	41.50	41.70	41.30	1.48E+04	1.35E+04
4/10/2018 3:25:40	41.70	41.60	41.50	41.70	41.30	1.48E+04	1.35E+04
4/10/2018 3:26:40	41.80	41.70	41.50	41.80	41.30	1.51E+04	1.35E+04
4/10/2018 3:27:40	42.10	41.70	41.50	42.10	41.30	1.62E+04	1.35E+04
4/10/2018 3:28:40	41.60	41.60	41.40	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 3:29:40	41.70	41.50	41.40	41.70	41.20	1.48E+04	1.32E+04
4/10/2018 3:30:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 3:31:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:32:40	41.60	41.50	41.30	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 3:33:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 3:34:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 3:35:40	47.30	45.90	41.40	47.30	41.20	5.37E+04	1.32E+04
4/10/2018 3:36:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:37:40	41.70	41.60	41.40	41.70	41.20	1.48E+04	1.32E+04
4/10/2018 3:38:40	47.70	46.00	41.40	47.70	41.20	5.89E+04	1.32E+04
4/10/2018 3:39:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:40:40	41.80	41.50	41.30	41.80	41.10	1.51E+04	1.29E+04
4/10/2018 3:41:40	41.50	41.50	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 3:42:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:43:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:44:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:45:40	41.50	41.50	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 3:46:40	41.40	41.40	41.30	41.40	41.10	1.38E+04	1.29E+04
4/10/2018 3:47:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 3:48:40	41.40	41.40	41.20	41.40	41.00	1.38E+04	1.26E+04
4/10/2018 3:49:40	43.40	41.40	41.20	43.40	41.00	2.19E+04	1.26E+04
4/10/2018 3:50:40	43.70	41.50	41.30	43.70	41.10	2.34E+04	1.29E+04
4/10/2018 3:51:40	41.60	41.40	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:52:40	41.70	41.40	41.20	41.70	41.00	1.48E+04	1.26E+04
4/10/2018 3:53:40	41.60	41.40	41.20	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:54:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 3:55:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 3:56:40	41.60	41.40	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 3:57:40	41.60	41.40	41.30	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 3:58:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 3:59:40	41.60	41.40	41.30	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:00:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:01:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:02:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:03:40	46.30	44.70	41.30	46.30	41.00	4.27E+04	1.26E+04

4/10/2018 4:04:40	43.30	42.10	41.30	43.30	41.10	2.14E+04	1.29E+04
4/10/2018 4:05:40	41.50	41.40	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 4:06:40	41.60	41.40	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 4:07:40	41.50	41.40	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 4:08:40	41.50	41.40	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 4:09:40	41.40	41.40	41.20	41.40	41.00	1.38E+04	1.26E+04
4/10/2018 4:10:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 4:11:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 4:12:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:13:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 4:14:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 4:15:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:16:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 4:17:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 4:18:40	41.70	41.30	41.20	41.70	41.00	1.48E+04	1.26E+04
4/10/2018 4:19:40	41.70	41.40	41.20	41.70	41.00	1.48E+04	1.26E+04
4/10/2018 4:20:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 4:21:40	41.50	41.30	41.20	41.50	40.90	1.41E+04	1.23E+04
4/10/2018 4:22:40	41.50	41.30	41.10	41.50	40.90	1.41E+04	1.23E+04
4/10/2018 4:23:40	41.60	41.30	41.10	41.60	40.90	1.45E+04	1.23E+04
4/10/2018 4:24:40	41.40	41.30	41.20	41.40	41.00	1.38E+04	1.26E+04
4/10/2018 4:25:40	43.50	41.40	41.20	43.50	41.00	2.24E+04	1.26E+04
4/10/2018 4:26:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 4:27:40	41.50	41.50	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 4:28:40	46.00	44.70	41.40	46.00	41.20	3.98E+04	1.32E+04
4/10/2018 4:29:40	41.60	41.60	41.40	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 4:30:40	41.60	41.60	41.40	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 4:31:40	41.80	41.60	41.40	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 4:32:40	41.80	41.60	41.40	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 4:33:40	41.60	41.60	41.40	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 4:34:40	42.10	41.60	41.40	42.10	41.20	1.62E+04	1.32E+04
4/10/2018 4:35:40	41.60	41.60	41.40	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 4:36:40	41.70	41.50	41.40	41.70	41.20	1.48E+04	1.32E+04
4/10/2018 4:37:40	41.80	41.60	41.40	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 4:38:40	41.70	41.60	41.40	41.70	41.20	1.48E+04	1.32E+04
4/10/2018 4:39:40	41.60	41.60	41.40	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 4:40:40	41.80	41.60	41.40	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 4:41:40	46.60	45.20	41.50	46.60	41.30	4.57E+04	1.35E+04
4/10/2018 4:42:40	42.40	41.80	41.40	42.40	41.20	1.74E+04	1.32E+04
4/10/2018 4:43:40	41.80	41.60	41.50	41.80	41.30	1.51E+04	1.35E+04
4/10/2018 4:44:40	46.00	44.80	41.50	46.00	41.40	3.98E+04	1.38E+04
4/10/2018 4:45:40	47.60	45.00	41.50	47.60	41.10	5.75E+04	1.29E+04
4/10/2018 4:46:40	41.80	41.70	41.50	41.80	41.30	1.51E+04	1.35E+04
4/10/2018 4:47:40	42.00	41.70	41.50	42.00	41.30	1.58E+04	1.35E+04
4/10/2018 4:48:40	41.90	41.60	41.40	41.90	41.20	1.55E+04	1.32E+04
4/10/2018 4:49:40	41.80	41.60	41.40	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 4:50:40	42.40	41.70	41.40	42.40	41.20	1.74E+04	1.32E+04
4/10/2018 4:51:40	48.40	47.00	41.50	48.40	41.30	6.92E+04	1.35E+04
4/10/2018 4:52:40	41.80	41.50	41.30	41.80	41.10	1.51E+04	1.29E+04
4/10/2018 4:53:40	41.50	41.40	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 4:54:40	48.80	47.10	41.40	48.80	41.10	7.59E+04	1.29E+04
4/10/2018 4:55:40	48.60	46.70	41.50	48.60	41.30	7.24E+04	1.35E+04

4/10/2018 4:56:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 4:57:40	41.50	41.50	41.30	41.50	41.10	1.41E+04	1.29E+04
4/10/2018 4:58:40	42.20	41.70	41.30	42.20	41.10	1.66E+04	1.29E+04
4/10/2018 4:59:40	42.90	42.00	41.30	42.90	41.10	1.95E+04	1.29E+04
4/10/2018 5:00:40	42.90	41.60	41.40	42.90	41.10	1.95E+04	1.29E+04
4/10/2018 5:01:40	41.80	41.50	41.40	41.80	41.10	1.51E+04	1.29E+04
4/10/2018 5:02:40	41.60	41.50	41.40	41.60	41.20	1.45E+04	1.32E+04
4/10/2018 5:03:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 5:04:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 5:05:40	41.60	41.40	41.30	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 5:06:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 5:07:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 5:08:40	41.90	41.60	41.40	41.90	41.20	1.55E+04	1.32E+04
4/10/2018 5:09:40	41.50	41.50	41.40	41.50	41.20	1.41E+04	1.32E+04
4/10/2018 5:10:40	47.50	46.30	41.40	47.50	41.20	5.62E+04	1.32E+04
4/10/2018 5:11:40	49.30	47.50	41.50	49.30	41.30	8.51E+04	1.35E+04
4/10/2018 5:12:40	41.80	41.60	41.40	41.80	41.20	1.51E+04	1.32E+04
4/10/2018 5:13:40	41.70	41.50	41.30	41.70	41.10	1.48E+04	1.29E+04
4/10/2018 5:14:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 5:15:40	49.50	48.60	41.50	49.50	41.20	8.91E+04	1.32E+04
4/10/2018 5:16:40	47.50	44.00	41.30	47.50	41.10	5.62E+04	1.29E+04
4/10/2018 5:17:40	46.30	45.40	41.30	46.30	41.10	4.27E+04	1.29E+04
4/10/2018 5:18:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 5:19:40	41.50	41.40	41.20	41.50	41.00	1.41E+04	1.26E+04
4/10/2018 5:20:40	50.50	48.30	41.40	50.50	41.10	1.12E+05	1.29E+04
4/10/2018 5:21:40	41.90	41.60	41.40	41.90	41.10	1.55E+04	1.29E+04
4/10/2018 5:22:40	41.60	41.50	41.30	41.60	41.10	1.45E+04	1.29E+04
4/10/2018 5:23:40	46.50	44.40	41.30	46.50	41.10	4.47E+04	1.29E+04
4/10/2018 5:24:40	45.40	43.80	41.30	45.40	41.10	3.47E+04	1.29E+04
4/10/2018 5:25:40	49.40	46.30	41.60	49.40	41.30	8.71E+04	1.35E+04
4/10/2018 5:26:40	41.70	41.50	41.20	41.70	41.00	1.48E+04	1.26E+04
4/10/2018 5:27:40	41.80	41.50	41.20	41.80	41.00	1.51E+04	1.26E+04
4/10/2018 5:28:40	50.40	49.00	41.30	50.40	41.00	1.10E+05	1.26E+04
4/10/2018 5:29:40	45.00	42.00	41.20	45.00	41.00	3.16E+04	1.26E+04
4/10/2018 5:30:40	41.70	41.40	41.10	41.70	40.90	1.48E+04	1.23E+04
4/10/2018 5:31:40	42.40	41.80	41.30	42.40	41.00	1.74E+04	1.26E+04
4/10/2018 5:32:40	47.80	47.00	41.20	47.80	40.90	6.03E+04	1.23E+04
4/10/2018 5:33:40	41.40	41.30	41.20	41.40	41.00	1.38E+04	1.26E+04
4/10/2018 5:34:40	41.60	41.40	41.20	41.60	41.00	1.45E+04	1.26E+04
4/10/2018 5:35:40	47.00	45.60	41.20	47.00	41.00	5.01E+04	1.26E+04
4/10/2018 5:36:40	47.90	47.20	42.50	47.90	42.00	6.17E+04	1.58E+04
4/10/2018 5:37:40	43.00	42.00	41.20	43.00	40.90	2.00E+04	1.23E+04
4/10/2018 5:38:40	46.90	42.40	41.20	46.90	40.90	4.90E+04	1.23E+04
4/10/2018 5:39:40	47.40	46.90	41.20	47.40	40.90	5.50E+04	1.23E+04
4/10/2018 5:40:40	45.40	44.70	41.70	45.40	41.20	3.47E+04	1.32E+04
4/10/2018 5:41:40	41.70	41.50	41.20	41.70	41.00	1.48E+04	1.26E+04
4/10/2018 5:42:40	45.30	43.40	41.40	45.30	41.20	3.39E+04	1.32E+04
4/10/2018 5:43:40	53.00	51.00	41.20	53.00	41.00	2.00E+05	1.26E+04
4/10/2018 5:44:40	41.40	41.40	41.20	41.40	40.90	1.38E+04	1.23E+04
4/10/2018 5:45:40	41.40	41.30	41.10	41.40	40.70	1.38E+04	1.17E+04
4/10/2018 5:46:40	48.50	47.60	41.20	48.50	41.00	7.08E+04	1.26E+04
4/10/2018 5:47:40	48.50	46.70	41.30	48.50	41.10	7.08E+04	1.29E+04

4/10/2018 5:48:40	41.60	41.30	41.10	41.60	40.80	1.45E+04	1.20E+04
4/10/2018 5:49:40	41.20	41.20	41.00	41.20	40.80	1.32E+04	1.20E+04
4/10/2018 5:50:40	41.30	41.20	41.00	41.30	40.80	1.35E+04	1.20E+04
4/10/2018 5:51:40	43.00	42.30	41.10	43.00	40.80	2.00E+04	1.20E+04
4/10/2018 5:52:40	49.00	46.80	41.70	49.00	41.20	7.94E+04	1.32E+04
4/10/2018 5:53:40	48.00	46.90	42.10	48.00	41.70	6.31E+04	1.48E+04
4/10/2018 5:54:40	46.90	43.80	41.10	46.90	40.90	4.90E+04	1.23E+04
4/10/2018 5:55:40	48.80	46.50	41.60	48.80	41.30	7.59E+04	1.35E+04
4/10/2018 5:56:40	50.10	48.70	41.70	50.10	41.40	1.02E+05	1.38E+04
4/10/2018 5:57:40	49.00	47.90	41.20	49.00	41.00	7.94E+04	1.26E+04
4/10/2018 5:58:40	51.80	50.20	41.30	51.80	41.00	1.51E+05	1.26E+04
4/10/2018 5:59:40	41.80	41.50	41.20	41.80	41.00	1.51E+04	1.26E+04
4/10/2018 6:00:40	47.80	46.20	41.30	47.80	41.00	6.03E+04	1.26E+04
4/10/2018 6:01:40	47.90	47.30	41.40	47.90	41.10	6.17E+04	1.29E+04
4/10/2018 6:02:40	48.10	42.40	41.20	48.10	41.00	6.46E+04	1.26E+04
4/10/2018 6:03:40	49.40	48.50	41.30	49.40	41.10	8.71E+04	1.29E+04
4/10/2018 6:04:40	48.90	47.00	41.40	48.90	41.10	7.76E+04	1.29E+04
4/10/2018 6:05:40	45.60	45.30	41.40	45.60	41.10	3.63E+04	1.29E+04
4/10/2018 6:06:40	49.30	48.30	41.60	49.30	41.20	8.51E+04	1.32E+04
4/10/2018 6:07:40	50.00	49.40	41.30	50.00	41.10	1.00E+05	1.29E+04
4/10/2018 6:08:40	44.30	42.60	41.40	44.30	41.20	2.69E+04	1.32E+04
4/10/2018 6:09:40	48.10	47.90	41.10	48.10	40.90	6.46E+04	1.23E+04
4/10/2018 6:10:40	43.00	41.40	41.10	43.00	40.80	2.00E+04	1.20E+04
4/10/2018 6:11:40	49.20	48.50	41.20	49.20	40.90	8.32E+04	1.23E+04
4/10/2018 6:12:40	42.90	42.30	41.30	42.90	41.00	1.95E+04	1.26E+04
4/10/2018 6:13:40	46.30	46.00	41.20	46.30	41.00	4.27E+04	1.26E+04
4/10/2018 6:14:40	49.00	48.00	41.30	49.00	41.10	7.94E+04	1.29E+04
4/10/2018 6:15:40	51.00	50.30	41.70	51.00	41.30	1.26E+05	1.35E+04
4/10/2018 6:16:40	42.80	41.50	41.20	42.80	41.00	1.91E+04	1.26E+04
4/10/2018 6:17:40	51.60	49.50	43.70	51.60	42.30	1.45E+05	1.70E+04
4/10/2018 6:18:40	47.60	46.50	41.40	47.60	41.10	5.75E+04	1.29E+04
4/10/2018 6:19:40	47.80	47.00	41.30	47.80	41.00	6.03E+04	1.26E+04
4/10/2018 6:20:40	43.50	41.80	41.10	43.50	40.90	2.24E+04	1.23E+04
4/10/2018 6:21:40	54.30	51.80	42.10	54.30	41.00	2.69E+05	1.26E+04
4/10/2018 6:22:40	41.60	41.50	40.80	41.60	40.60	1.45E+04	1.15E+04
4/10/2018 6:23:40	50.60	49.00	40.90	50.60	40.60	1.15E+05	1.15E+04
4/10/2018 6:24:40	48.30	47.10	42.20	48.30	41.10	6.76E+04	1.29E+04
4/10/2018 6:25:40	51.40	49.90	42.10	51.40	41.50	1.38E+05	1.41E+04
4/10/2018 6:26:40	51.20	50.40	44.40	51.20	43.50	1.32E+05	2.24E+04
4/10/2018 6:27:40	50.20	49.20	45.60	50.20	44.80	1.05E+05	3.02E+04
4/10/2018 6:28:40	49.80	48.50	43.30	49.80	42.50	9.55E+04	1.78E+04
4/10/2018 6:29:40	52.20	50.40	44.00	52.20	43.30	1.66E+05	2.14E+04
4/10/2018 6:30:40	48.00	47.00	41.70	48.00	40.90	6.31E+04	1.23E+04
4/10/2018 6:31:40	49.00	47.90	43.60	49.00	41.70	7.94E+04	1.48E+04
4/10/2018 6:32:40	51.20	50.40	43.30	51.20	42.20	1.32E+05	1.66E+04
4/10/2018 6:33:40	50.80	50.10	42.30	50.80	41.90	1.20E+05	1.55E+04
4/10/2018 6:34:40	51.00	49.90	41.60	51.00	41.20	1.26E+05	1.32E+04
4/10/2018 6:35:40	50.30	48.90	41.70	50.30	41.20	1.07E+05	1.32E+04
4/10/2018 6:36:40	50.70	49.00	42.40	50.70	41.50	1.17E+05	1.41E+04
4/10/2018 6:37:40	48.90	46.70	41.70	48.90	41.30	7.76E+04	1.35E+04
4/10/2018 6:38:40	42.10	41.90	41.20	42.10	40.90	1.62E+04	1.23E+04
4/10/2018 6:39:40	48.90	48.20	40.90	48.90	40.70	7.76E+04	1.17E+04

4/10/2018 6:40:40	41.20	41.00	40.70	41.20	40.50	1.32E+04	1.12E+04
4/10/2018 6:41:40	46.20	44.90	40.80	46.20	40.60	4.17E+04	1.15E+04
4/10/2018 6:42:40	46.30	45.60	40.80	46.30	40.50	4.27E+04	1.12E+04
4/10/2018 6:43:40	41.10	40.90	40.70	41.10	40.50	1.29E+04	1.12E+04
4/10/2018 6:44:40	48.60	42.20	40.80	48.60	40.60	7.24E+04	1.15E+04
4/10/2018 6:45:40	50.70	48.70	41.00	50.70	40.70	1.17E+05	1.17E+04
4/10/2018 6:46:40	50.10	49.00	42.10	50.10	41.70	1.02E+05	1.48E+04
4/10/2018 6:47:40	48.90	47.40	41.40	48.90	41.00	7.76E+04	1.26E+04
4/10/2018 6:48:40	49.30	47.50	40.90	49.30	40.60	8.51E+04	1.15E+04
4/10/2018 6:49:40	49.00	46.90	40.70	49.00	40.40	7.94E+04	1.10E+04
4/10/2018 6:50:40	50.10	49.50	40.90	50.10	40.50	1.02E+05	1.12E+04
4/10/2018 6:51:40	42.30	41.60	40.80	42.30	40.50	1.70E+04	1.12E+04
4/10/2018 6:52:40	46.20	45.60	40.60	46.20	40.30	4.17E+04	1.07E+04
4/10/2018 6:53:40	40.90	40.80	40.60	40.90	40.40	1.23E+04	1.10E+04
4/10/2018 6:54:40	50.60	48.80	40.60	50.60	40.40	1.15E+05	1.10E+04
4/10/2018 6:55:40	51.30	50.20	42.20	51.30	41.00	1.35E+05	1.26E+04
4/10/2018 6:56:40	41.90	41.60	40.80	41.90	40.50	1.55E+04	1.12E+04
4/10/2018 6:57:40	41.30	41.10	40.80	41.30	40.50	1.35E+04	1.12E+04
4/10/2018 6:58:40	50.00	49.30	41.40	50.00	40.70	1.00E+05	1.17E+04
4/10/2018 6:59:40	46.20	45.60	42.40	46.20	41.80	4.17E+04	1.51E+04
4/10/2018 7:00:40	48.20	46.60	41.20	48.20	40.90	6.61E+04	1.23E+04
4/10/2018 7:01:40	47.50	45.20	41.00	47.50	40.70	5.62E+04	1.17E+04
4/10/2018 7:02:40	41.70	41.30	40.70	41.70	40.50	1.48E+04	1.12E+04
4/10/2018 7:03:40	53.00	52.10	41.30	53.00	40.70	2.00E+05	1.17E+04
4/10/2018 7:04:40	52.30	47.60	41.90	52.30	41.30	1.70E+05	1.35E+04
4/10/2018 7:05:40	42.10	41.60	40.80	42.10	40.50	1.62E+04	1.12E+04
4/10/2018 7:06:40	47.50	46.50	40.70	47.50	40.50	5.62E+04	1.12E+04
4/10/2018 7:07:40	47.70	46.60	40.90	47.70	40.60	5.89E+04	1.15E+04
4/10/2018 7:08:40	49.30	47.80	40.80	49.30	40.50	8.51E+04	1.12E+04
4/10/2018 7:09:40	51.40	49.10	40.80	51.40	40.50	1.38E+05	1.12E+04
4/10/2018 7:10:40	52.40	50.70	42.00	52.40	41.50	1.74E+05	1.41E+04
4/10/2018 7:11:40	49.50	48.40	42.20	49.50	41.80	8.91E+04	1.51E+04
4/10/2018 7:12:40	50.20	48.70	42.50	50.20	41.90	1.05E+05	1.55E+04
4/10/2018 7:13:40	51.60	49.40	41.30	51.60	40.80	1.45E+05	1.20E+04
4/10/2018 7:14:40	53.50	51.30	42.10	53.50	41.40	2.24E+05	1.38E+04
4/10/2018 7:15:40	58.30	55.60	42.40	58.30	42.10	6.76E+05	1.62E+04
4/10/2018 7:16:40	53.80	46.60	41.10	53.80	40.80	2.40E+05	1.20E+04
4/10/2018 7:17:40	53.40	51.80	40.90	53.40	40.70	2.19E+05	1.17E+04
4/10/2018 7:18:40	52.40	48.70	41.70	52.40	41.30	1.74E+05	1.35E+04
4/10/2018 7:19:40	51.40	49.40	42.30	51.40	41.90	1.38E+05	1.55E+04
4/10/2018 7:20:40	47.80	47.30	41.70	47.80	41.20	6.03E+04	1.32E+04
4/10/2018 7:21:40	52.20	50.10	43.80	52.20	42.50	1.66E+05	1.78E+04
4/10/2018 7:22:40	48.70	47.30	42.80	48.70	42.30	7.41E+04	1.70E+04
4/10/2018 7:23:40	54.30	50.60	43.50	54.30	42.50	2.69E+05	1.78E+04
4/10/2018 7:24:40	52.40	48.10	41.60	52.40	41.20	1.74E+05	1.32E+04
4/10/2018 7:25:40	51.20	49.90	41.10	51.20	40.60	1.32E+05	1.15E+04
4/10/2018 7:26:40	52.40	50.70	41.20	52.40	40.70	1.74E+05	1.17E+04
4/10/2018 7:27:40	51.90	51.30	42.00	51.90	41.60	1.55E+05	1.45E+04
4/10/2018 7:28:40	48.00	46.70	40.80	48.00	40.60	6.31E+04	1.15E+04
4/10/2018 7:29:40	50.00	48.90	40.80	50.00	40.60	1.00E+05	1.15E+04
4/10/2018 7:30:40	49.00	47.70	42.10	49.00	41.60	7.94E+04	1.45E+04
4/10/2018 7:31:40	48.20	47.00	42.50	48.20	42.00	6.61E+04	1.58E+04

4/10/2018 7:32:40	56.00	53.20	42.30	56.00	41.90	3.98E+05	1.55E+04
4/10/2018 7:33:40	44.80	43.80	42.40	44.80	42.10	3.02E+04	1.62E+04
4/10/2018 7:34:40	54.80	52.80	42.40	54.80	41.80	3.02E+05	1.51E+04
4/10/2018 7:35:40	49.30	48.00	41.80	49.30	41.30	8.51E+04	1.35E+04
4/10/2018 7:36:40	52.80	51.10	41.60	52.80	41.10	1.91E+05	1.29E+04
4/10/2018 7:37:40	52.40	48.90	41.00	52.40	40.80	1.74E+05	1.20E+04
4/10/2018 7:38:40	53.50	52.60	41.00	53.50	40.80	2.24E+05	1.20E+04
4/10/2018 7:39:40	51.30	50.60	43.70	51.30	42.50	1.35E+05	1.78E+04
4/10/2018 7:40:40	48.70	47.60	42.10	48.70	41.60	7.41E+04	1.45E+04
4/10/2018 7:41:40	43.00	42.50	41.50	43.00	41.10	2.00E+04	1.29E+04
4/10/2018 7:42:40	50.50	49.20	41.50	50.50	41.20	1.12E+05	1.32E+04
4/10/2018 7:43:40	53.00	51.40	44.90	53.00	43.80	2.00E+05	2.40E+04
4/10/2018 7:44:40	52.40	49.60	42.20	52.40	41.70	1.74E+05	1.48E+04
4/10/2018 7:45:40	53.20	52.40	45.10	53.20	44.00	2.09E+05	2.51E+04
4/10/2018 7:46:40	51.40	50.80	43.80	51.40	42.60	1.38E+05	1.82E+04
4/10/2018 7:47:40	50.20	46.10	42.00	50.20	41.60	1.05E+05	1.45E+04
4/10/2018 7:48:40	49.60	48.50	41.60	49.60	41.10	9.12E+04	1.29E+04
4/10/2018 7:49:40	51.80	50.90	42.40	51.80	41.70	1.51E+05	1.48E+04
4/10/2018 7:50:40	50.60	48.80	42.40	50.60	41.90	1.15E+05	1.55E+04
4/10/2018 7:51:40	51.20	50.40	42.60	51.20	42.10	1.32E+05	1.62E+04
4/10/2018 7:52:40	50.10	48.70	41.80	50.10	41.50	1.02E+05	1.41E+04
4/10/2018 7:53:40	50.50	49.30	41.70	50.50	41.40	1.12E+05	1.38E+04
4/10/2018 7:54:40	49.80	48.00	41.90	49.80	41.60	9.55E+04	1.45E+04
4/10/2018 7:55:40	50.70	49.20	41.70	50.70	41.40	1.17E+05	1.38E+04
4/10/2018 7:56:40	48.70	47.60	41.50	48.70	41.20	7.41E+04	1.32E+04
4/10/2018 7:57:40	46.80	43.90	41.90	46.80	41.50	4.79E+04	1.41E+04
4/10/2018 7:58:40	46.00	45.00	43.30	46.00	42.60	3.98E+04	1.82E+04
4/10/2018 7:59:40	49.10	48.40	42.70	49.10	42.40	8.13E+04	1.74E+04
4/10/2018 8:00:40	49.50	48.30	42.50	49.50	41.90	8.91E+04	1.55E+04
4/10/2018 8:01:40	49.80	47.90	41.90	49.80	41.60	9.55E+04	1.45E+04
4/10/2018 8:02:40	51.40	50.60	43.10	51.40	42.40	1.38E+05	1.74E+04
4/10/2018 8:03:40	50.80	47.60	42.20	50.80	41.90	1.20E+05	1.55E+04
4/10/2018 8:04:40	50.00	48.90	42.20	50.00	41.70	1.00E+05	1.48E+04
4/10/2018 8:05:40	44.40	42.90	41.80	44.40	41.60	2.75E+04	1.45E+04
4/10/2018 8:06:40	48.30	47.30	42.70	48.30	42.30	6.76E+04	1.70E+04
4/10/2018 8:07:40	48.50	47.40	43.40	48.50	43.00	7.08E+04	2.00E+04
4/10/2018 8:08:40	43.90	43.10	42.30	43.90	41.90	2.45E+04	1.55E+04
4/10/2018 8:09:40	48.40	47.80	42.00	48.40	41.70	6.92E+04	1.48E+04
4/10/2018 8:10:40	50.70	48.80	41.90	50.70	41.60	1.17E+05	1.45E+04
4/10/2018 8:11:40	50.90	50.10	44.70	50.90	44.20	1.23E+05	2.63E+04
4/10/2018 8:12:40	51.70	49.30	44.90	51.70	43.40	1.48E+05	2.19E+04
4/10/2018 8:13:40	52.30	51.10	42.70	52.30	42.10	1.70E+05	1.62E+04
4/10/2018 8:14:40	51.90	50.60	47.80	51.90	46.50	1.55E+05	4.47E+04
4/10/2018 8:15:40	52.40	50.50	44.10	52.40	43.40	1.74E+05	2.19E+04
4/10/2018 8:16:40	52.20	51.40	44.20	52.20	43.60	1.66E+05	2.29E+04
4/10/2018 8:17:40	49.20	48.50	44.60	49.20	44.00	8.32E+04	2.51E+04
4/10/2018 8:18:40	52.90	52.20	45.10	52.90	44.40	1.95E+05	2.75E+04
4/10/2018 8:19:40	50.70	49.70	45.70	50.70	45.20	1.17E+05	3.31E+04
4/10/2018 8:20:40	51.50	50.50	45.90	51.50	44.50	1.41E+05	2.82E+04
4/10/2018 8:21:40	50.40	48.20	43.50	50.40	43.20	1.10E+05	2.09E+04
4/10/2018 8:22:40	50.40	49.30	44.60	50.40	43.80	1.10E+05	2.40E+04
4/10/2018 8:23:40	47.50	46.60	43.70	47.50	43.40	5.62E+04	2.19E+04

4/10/2018 8:24:40	48.30	47.10	43.70	48.30	43.30	6.76E+04	2.14E+04
4/10/2018 8:25:40	51.00	50.50	44.00	51.00	43.70	1.26E+05	2.34E+04
4/10/2018 8:26:40	56.30	53.40	45.50	56.30	44.70	4.27E+05	2.95E+04
4/10/2018 8:27:40	45.10	44.70	43.70	45.10	43.30	3.24E+04	2.14E+04
4/10/2018 8:28:40	44.20	43.80	43.40	44.20	43.20	2.63E+04	2.09E+04
4/10/2018 8:29:40	52.50	51.00	43.70	52.50	43.40	1.78E+05	2.19E+04
4/10/2018 8:30:40	50.90	50.50	43.80	50.90	43.50	1.23E+05	2.24E+04
4/10/2018 8:31:40	51.00	50.40	43.80	51.00	43.50	1.26E+05	2.24E+04
4/10/2018 8:32:40	61.30	58.20	46.30	61.30	45.50	1.35E+06	3.55E+04
4/10/2018 8:33:40	50.90	48.20	44.70	50.90	44.30	1.23E+05	2.69E+04
4/10/2018 8:34:40	49.40	49.00	44.30	49.40	43.60	8.71E+04	2.29E+04
4/10/2018 8:35:40	49.60	48.80	45.30	49.60	44.00	9.12E+04	2.51E+04
4/10/2018 8:36:40	51.50	49.70	45.70	51.50	45.20	1.41E+05	3.31E+04
4/10/2018 8:37:40	49.20	48.70	43.50	49.20	43.30	8.32E+04	2.14E+04
4/10/2018 8:38:40	50.80	49.90	44.10	50.80	43.20	1.20E+05	2.09E+04
4/10/2018 8:39:40	49.90	49.00	43.50	49.90	43.20	9.77E+04	2.09E+04
4/10/2018 8:40:40	53.20	51.70	44.70	53.20	43.90	2.09E+05	2.45E+04
4/10/2018 8:41:40	52.60	51.30	45.70	52.60	45.00	1.82E+05	3.16E+04
4/10/2018 8:42:40	55.50	53.00	44.50	55.50	43.90	3.55E+05	2.45E+04
4/10/2018 8:43:40	52.80	49.60	45.00	52.80	44.30	1.91E+05	2.69E+04
4/10/2018 8:44:40	53.10	52.30	46.00	53.10	44.30	2.04E+05	2.69E+04
4/10/2018 8:45:40	53.20	51.30	44.70	53.20	43.90	2.09E+05	2.45E+04
4/10/2018 8:46:40	48.90	47.40	44.10	48.90	43.50	7.76E+04	2.24E+04
4/10/2018 8:47:40	51.10	49.90	44.20	51.10	43.70	1.29E+05	2.34E+04
4/10/2018 8:48:40	54.40	52.80	45.80	54.40	45.00	2.75E+05	3.16E+04
4/10/2018 8:49:40	45.50	44.40	42.80	45.50	42.50	3.55E+04	1.78E+04
4/10/2018 8:50:40	45.90	44.80	43.30	45.90	43.00	3.89E+04	2.00E+04
4/10/2018 8:51:40	51.60	50.50	43.60	51.60	43.30	1.45E+05	2.14E+04
4/10/2018 8:52:40	58.40	55.80	43.90	58.40	43.60	6.92E+05	2.29E+04
4/10/2018 8:53:40	56.90	55.70	51.40	56.90	49.50	4.90E+05	8.91E+04
4/10/2018 8:54:40	53.50	51.40	44.50	53.50	43.40	2.24E+05	2.19E+04
4/10/2018 8:55:40	50.20	49.20	43.30	50.20	42.70	1.05E+05	1.86E+04
4/10/2018 8:56:40	49.60	49.00	42.40	49.60	42.10	9.12E+04	1.62E+04
4/10/2018 8:57:40	48.00	46.50	42.60	48.00	42.30	6.31E+04	1.70E+04
4/10/2018 8:58:40	50.70	49.70	43.40	50.70	43.10	1.17E+05	2.04E+04
4/10/2018 8:59:40	44.70	44.10	42.80	44.70	42.60	2.95E+04	1.82E+04
4/10/2018 9:00:40	53.40	52.50	42.90	53.40	42.60	2.19E+05	1.82E+04
4/10/2018 9:01:40	51.00	50.20	43.00	51.00	42.60	1.26E+05	1.82E+04
4/10/2018 9:02:40	49.80	48.80	43.60	49.80	43.30	9.55E+04	2.14E+04
4/10/2018 9:03:40	51.30	50.50	43.80	51.30	43.40	1.35E+05	2.19E+04
4/10/2018 9:04:40	49.20	47.50	44.20	49.20	43.80	8.32E+04	2.40E+04
4/10/2018 9:05:40	52.40	50.40	45.80	52.40	44.30	1.74E+05	2.69E+04
4/10/2018 9:06:40	49.50	48.40	43.50	49.50	43.30	8.91E+04	2.14E+04
4/10/2018 9:07:40	48.40	46.40	43.30	48.40	43.00	6.92E+04	2.00E+04
4/10/2018 9:08:40	48.30	47.50	44.10	48.30	43.50	6.76E+04	2.24E+04
4/10/2018 9:09:40	49.40	49.10	44.80	49.40	44.30	8.71E+04	2.69E+04
4/10/2018 9:10:40	53.70	52.60	44.40	53.70	43.80	2.34E+05	2.40E+04
4/10/2018 9:11:40	44.20	44.10	43.40	44.20	43.20	2.63E+04	2.09E+04
4/10/2018 9:12:40	51.40	50.10	43.70	51.40	43.30	1.38E+05	2.14E+04
4/10/2018 9:13:40	43.80	43.60	43.30	43.80	43.00	2.40E+04	2.00E+04
4/10/2018 9:14:40	49.10	47.90	43.30	49.10	43.20	8.13E+04	2.09E+04
4/10/2018 9:15:40	47.00	44.30	43.50	47.00	43.30	5.01E+04	2.14E+04

4/10/2018 9:16:40	52.80	51.80	43.50	52.80	43.20	1.91E+05	2.09E+04
4/10/2018 9:17:40	48.60	47.50	43.90	48.60	43.30	7.24E+04	2.14E+04
4/10/2018 9:18:40	48.90	47.20	43.20	48.90	42.90	7.76E+04	1.95E+04
4/10/2018 9:19:40	47.00	45.70	42.80	47.00	42.60	5.01E+04	1.82E+04
4/10/2018 9:20:40	50.40	49.70	44.40	50.40	43.40	1.10E+05	2.19E+04
4/10/2018 9:21:40	45.80	44.70	43.00	45.80	42.80	3.80E+04	1.91E+04
4/10/2018 9:22:40	51.70	50.20	43.20	51.70	42.90	1.48E+05	1.95E+04
4/10/2018 9:23:40	48.80	47.20	43.80	48.80	43.20	7.59E+04	2.09E+04
4/10/2018 9:24:40	51.90	50.60	44.90	51.90	44.40	1.55E+05	2.75E+04
4/10/2018 9:25:40	52.50	51.10	43.00	52.50	42.50	1.78E+05	1.78E+04
4/10/2018 9:26:40	47.80	45.70	42.40	47.80	42.20	6.03E+04	1.66E+04
4/10/2018 9:27:40	47.80	47.00	42.90	47.80	42.70	6.03E+04	1.86E+04
4/10/2018 9:28:40	48.60	46.70	42.90	48.60	42.70	7.24E+04	1.86E+04
4/10/2018 9:29:40	63.50	53.40	43.50	63.50	43.20	2.24E+06	2.09E+04
4/10/2018 9:30:40	61.40	60.00	43.50	61.40	43.20	1.38E+06	2.09E+04
4/10/2018 9:31:40	49.40	49.10	44.00	49.40	43.50	8.71E+04	2.24E+04
4/10/2018 9:32:40	51.40	49.30	43.50	51.40	43.20	1.38E+05	2.09E+04
4/10/2018 9:33:40	52.70	50.40	43.20	52.70	43.00	1.86E+05	2.00E+04
4/10/2018 9:34:40	44.40	43.30	43.00	44.40	42.90	2.75E+04	1.95E+04
4/10/2018 9:35:40	52.10	51.00	43.10	52.10	42.90	1.62E+05	1.95E+04
4/10/2018 9:36:40	49.00	46.70	43.70	49.00	43.30	7.94E+04	2.14E+04
4/10/2018 9:37:40	50.20	48.20	43.90	50.20	43.50	1.05E+05	2.24E+04
4/10/2018 9:38:40	50.10	49.10	43.50	50.10	43.30	1.02E+05	2.14E+04
4/10/2018 9:39:40	50.30	47.80	42.20	50.30	42.00	1.07E+05	1.58E+04
4/10/2018 9:40:40	50.50	49.30	42.40	50.50	42.10	1.12E+05	1.62E+04
4/10/2018 9:41:40	49.90	48.20	42.20	49.90	42.00	9.77E+04	1.58E+04
4/10/2018 9:42:40	49.70	48.30	42.00	49.70	41.80	9.33E+04	1.51E+04
4/10/2018 9:43:40	49.40	48.10	42.10	49.40	41.80	8.71E+04	1.51E+04
4/10/2018 9:44:40	46.60	46.00	42.50	46.60	42.30	4.57E+04	1.70E+04
4/10/2018 9:45:40	51.20	45.50	42.80	51.20	42.60	1.32E+05	1.82E+04
4/10/2018 9:46:40	52.30	51.90	44.00	52.30	43.50	1.70E+05	2.24E+04
4/10/2018 9:47:40	47.40	46.10	43.20	47.40	42.90	5.50E+04	1.95E+04
4/10/2018 9:48:40	58.00	54.40	44.00	58.00	43.50	6.31E+05	2.24E+04
4/10/2018 9:49:40	48.80	46.90	42.50	48.80	42.20	7.59E+04	1.66E+04
4/10/2018 9:50:40	51.20	49.80	43.10	51.20	42.90	1.32E+05	1.95E+04
4/10/2018 9:51:40	49.40	48.60	43.10	49.40	42.80	8.71E+04	1.91E+04
4/10/2018 9:52:40	43.60	43.10	42.70	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 9:53:40	44.40	43.60	42.60	44.40	42.40	2.75E+04	1.74E+04
4/10/2018 9:54:40	48.20	46.00	42.80	48.20	42.60	6.61E+04	1.82E+04
4/10/2018 9:55:40	48.50	45.50	43.10	48.50	43.00	7.08E+04	2.00E+04
4/10/2018 9:56:40	56.60	52.60	45.30	56.60	44.40	4.57E+05	2.75E+04
4/10/2018 9:57:40	72.10	60.30	43.40	72.10	43.00	1.62E+07	2.00E+04
4/10/2018 9:58:40	73.20	61.10	44.20	73.20	43.30	2.09E+07	2.14E+04

Location 2 & 5							Location 2		Location 5				
Timestamp	Lmax-1	L10-1	L90-1	Lavg-1	Lmax-1	Lmin-1	CountA: Ten Lmax/10	62 Ten Lmin/10	6.07E+07 Leq Max	1.33E+06 Leq Min	CountA: 60	2.49E+07 Leq Max	2.73E+06 Leq Min
4/11/2018 11:47:19	67.60	64.00	53.50		67.60	51.50	5.75E+06	1.41E+05	59.91	43.31		56.18	46.57
4/11/2018 11:48:19	70.50	64.70	50.90		70.50	47.50	1.12E+07	5.62E+04					
4/11/2018 11:49:19	61.50	58.70	48.30		61.50	47.40	1.41E+06	5.50E+04					
4/11/2018 11:50:19	71.60	62.60	47.00		71.60	46.80	1.45E+07	4.79E+04					
4/11/2018 11:51:19	61.50	56.30	47.20		61.50	47.00	1.41E+06	5.01E+04					
4/11/2018 11:52:19	68.80	62.90	44.80		68.80	44.20	7.59E+06	2.63E+04					
4/11/2018 11:53:19	60.40	53.50	45.30		60.40	44.20	1.10E+06	2.63E+04					
4/11/2018 11:54:19	65.70	52.40	44.20		65.70	43.20	3.72E+06	2.09E+04					
4/11/2018 11:55:19	62.90	57.10	44.10		62.90	43.00	1.95E+06	2.00E+04					
4/11/2018 11:56:19	44.20	43.40	42.30		44.20	42.10	2.63E+04	1.62E+04					
4/11/2018 11:57:19	50.80	44.30	41.30		50.80	41.10	1.20E+05	1.29E+04					
4/11/2018 11:58:19	43.40	43.20	41.70		43.40	41.40	2.19E+04	1.38E+04					
4/11/2018 11:59:19	44.30	44.00	42.50		44.30	42.20	2.69E+04	1.66E+04					
4/11/2018 12:00:19	45.80	45.00	42.10		45.80	41.80	3.80E+04	1.51E+04					
4/11/2018 12:01:19	53.30	49.10	43.90		53.30	43.00	2.14E+05	2.00E+04					
4/11/2018 12:02:19	51.80	48.60	44.90		51.80	44.00	1.51E+05	2.51E+04					
4/11/2018 12:03:19	46.60	45.00	42.40		46.60	42.10	4.57E+04	1.62E+04					
4/11/2018 12:04:19	44.10	43.60	42.50		44.10	41.70	2.57E+04	1.48E+04					
4/11/2018 12:05:19	43.90	43.20	41.90		43.90	41.50	2.45E+04	1.41E+04					
4/11/2018 12:06:19	42.40	42.30	41.60		42.40	41.30	1.74E+04	1.35E+04					
4/11/2018 12:07:19	41.90	41.30	40.60		41.90	40.20	1.55E+04	1.05E+04					
4/11/2018 12:08:19	42.00	41.20	40.40		42.00	40.10	1.58E+04	1.02E+04					
4/11/2018 12:09:19	42.40	42.10	41.00		42.40	40.60	1.74E+04	1.15E+04					
4/11/2018 12:10:19	42.00	41.60	40.70		42.00	40.30	1.58E+04	1.07E+04					
4/11/2018 12:11:19	42.30	42.10	41.30		42.30	41.00	1.70E+04	1.26E+04					
4/11/2018 12:12:19	43.00	42.70	41.20		43.00	40.70	2.00E+04	1.17E+04					
4/11/2018 12:13:19	41.60	41.10	40.60		41.60	40.30	1.45E+04	1.07E+04					
4/11/2018 12:14:19	41.50	41.10	40.70		41.50	40.50	1.41E+04	1.12E+04					
4/11/2018 12:15:19	41.30	41.30	40.70		41.30	40.40	1.35E+04	1.10E+04					
4/11/2018 12:16:19	43.90	42.30	41.10		43.90	40.80	2.45E+04	1.20E+04					
4/11/2018 12:17:19	44.70	42.80	41.10		44.70	40.70	2.95E+04	1.17E+04					
4/11/2018 12:18:19	48.80	46.30	40.80		48.80	40.50	7.59E+04	1.12E+04					
4/11/2018 12:19:19	46.50	45.40	41.80		46.50	41.10	4.47E+04	1.29E+04					
4/11/2018 12:20:19	42.60	41.60	40.60		42.60	40.30	1.82E+04	1.07E+04					
4/11/2018 12:21:19	41.60	41.10	40.60		41.60	40.30	1.45E+04	1.07E+04					
4/11/2018 12:22:19	41.10	40.90	40.30		41.10	40.00	1.29E+04	1.00E+04					
4/11/2018 12:23:19	40.80	40.60	40.30		40.80	40.00	1.20E+04	1.00E+04					
4/11/2018 12:24:19	40.70	40.60	40.30		40.70	40.10	1.17E+04	1.02E+04					
4/11/2018 12:25:19	43.70	40.90	40.40		43.70	40.10	2.34E+04	1.02E+04					
4/11/2018 12:26:19	46.60	44.20	41.40		46.60	41.00	4.57E+04	1.26E+04					
4/11/2018 12:27:19	42.90	41.80	40.90		42.90	40.60	1.95E+04	1.15E+04					
4/11/2018 12:28:19	41.80	41.10	40.60		41.80	40.20	1.51E+04	1.05E+04					
4/11/2018 12:29:19	43.00	41.90	41.10		43.00	40.70	2.00E+04	1.17E+04					
4/11/2018 12:30:19	41.30	41.20	40.60		41.30	40.30	1.35E+04	1.07E+04					
4/11/2018 12:31:19	42.50	41.90	40.60		42.50	40.30	1.78E+04	1.07E+04					
4/11/2018 12:32:19	46.30	41.00	40.40		46.30	40.00	4.27E+04	1.00E+04					
4/11/2018 12:33:19	45.90	44.50	41.30		45.90	40.70	3.89E+04	1.17E+04					
4/11/2018 12:34:19	47.10	46.60	43.00		47.10	42.00	5.13E+04	1.58E+04					
4/11/2018 12:35:19	46.00	45.50	43.60		46.00	43.00	3.98E+04	2.00E+04					

4/11/2018 12:36:19	48.70	46.90	44.70		48.70	43.50	7.41E+04	2.24E+04
4/11/2018 12:37:19	47.40	46.30	44.40		47.40	44.10	5.50E+04	2.57E+04
4/11/2018 12:38:19	55.10	48.20	44.40		55.10	43.70	3.24E+05	2.34E+04
4/11/2018 12:39:19	54.10	51.60	45.50		54.10	44.30	2.57E+05	2.69E+04
4/11/2018 12:40:19	51.70	49.10	44.80		51.70	44.00	1.48E+05	2.51E+04
4/11/2018 12:41:19	51.90	49.00	45.50		51.90	44.70	1.55E+05	2.95E+04
4/11/2018 12:42:19	50.30	47.10	45.00		50.30	44.10	1.07E+05	2.57E+04
4/11/2018 12:43:19	50.90	46.30	43.90		50.90	43.60	1.23E+05	2.29E+04
4/11/2018 12:44:19	47.20	46.30	44.60		47.20	43.80	5.25E+04	2.40E+04
4/11/2018 12:45:19	50.00	48.40	45.40		50.00	44.20	1.00E+05	2.63E+04
4/11/2018 12:46:19	50.20	48.70	46.60		50.20	45.10	1.05E+05	3.24E+04
4/11/2018 12:47:19	49.30	48.70	46.20		49.30	45.50	8.51E+04	3.55E+04
4/11/2018 12:48:19	69.60	52.80	48.60		69.60	47.20	9.12E+06	5.25E+04
4/11/2018 12:53:36	70.30	56.30	50.00		70.30	48.10	1.07E+07	6.46E+04
4/11/2018 12:54:36	56.30	50.60	47.30		56.30	46.20	4.27E+05	4.17E+04
4/11/2018 12:55:36	54.80	52.70	47.10		54.80	46.40	3.02E+05	4.37E+04
4/11/2018 12:56:36	55.10	54.10	47.90		55.10	47.20	3.24E+05	5.25E+04
4/11/2018 12:57:36	52.50	51.60	48.20		52.50	46.90	1.78E+05	4.90E+04
4/11/2018 12:58:36	49.80	48.90	46.60		49.80	46.00	9.55E+04	3.98E+04
4/11/2018 12:59:36	51.00	50.10	46.60		51.00	45.90	1.26E+05	3.89E+04
4/11/2018 13:00:36	55.40	53.50	50.30		55.40	48.90	3.47E+05	7.76E+04
4/11/2018 13:01:36	53.50	51.70	48.10		53.50	46.70	2.24E+05	4.68E+04
4/11/2018 13:02:36	53.00	51.80	46.70		53.00	46.10	2.00E+05	4.07E+04
4/11/2018 13:03:36	48.50	47.70	45.10		48.50	44.80	7.08E+04	3.02E+04
4/11/2018 13:04:36	47.50	46.40	44.90		47.50	44.50	5.62E+04	2.82E+04
4/11/2018 13:05:36	47.50	46.50	45.70		47.50	45.40	5.62E+04	3.47E+04
4/11/2018 13:06:36	46.60	46.40	45.60		46.60	45.40	4.57E+04	3.47E+04
4/11/2018 13:07:36	46.50	46.40	45.40		46.50	45.20	4.47E+04	3.31E+04
4/11/2018 13:08:36	47.10	46.80	46.10		47.10	45.80	5.13E+04	3.80E+04
4/11/2018 13:09:36	47.60	46.80	46.00		47.60	45.70	5.75E+04	3.72E+04
4/11/2018 13:10:36	46.90	46.80	46.00		46.90	45.70	4.90E+04	3.72E+04
4/11/2018 13:11:36	47.60	47.10	46.20		47.60	46.00	5.75E+04	3.98E+04
4/11/2018 13:12:36	48.80	48.30	46.60		48.80	46.10	7.59E+04	4.07E+04
4/11/2018 13:13:36	53.40	49.80	46.40		53.40	45.80	2.19E+05	3.80E+04
4/11/2018 13:14:36	50.60	49.90	46.50		50.60	46.10	1.15E+05	4.07E+04
4/11/2018 13:15:36	53.40	50.40	46.70		53.40	46.20	2.19E+05	4.17E+04
4/11/2018 13:16:36	51.10	49.00	46.70		51.10	46.20	1.29E+05	4.17E+04
4/11/2018 13:17:36	51.80	50.50	47.30		51.80	46.80	1.51E+05	4.79E+04
4/11/2018 13:18:36	51.80	50.10	47.60		51.80	47.00	1.51E+05	5.01E+04
4/11/2018 13:19:36	52.60	50.70	47.30		52.60	46.50	1.82E+05	4.47E+04
4/11/2018 13:20:36	51.40	50.30	47.40		51.40	46.60	1.38E+05	4.57E+04
4/11/2018 13:21:36	50.00	48.80	47.10		50.00	46.30	1.00E+05	4.27E+04
4/11/2018 13:22:36	49.50	49.30	47.10		49.50	46.40	8.91E+04	4.37E+04
4/11/2018 13:23:36	48.70	48.40	46.70		48.70	46.40	7.41E+04	4.37E+04
4/11/2018 13:24:36	48.90	48.00	46.60		48.90	46.20	7.76E+04	4.17E+04
4/11/2018 13:25:36	49.80	48.60	46.40		49.80	46.10	9.55E+04	4.07E+04
4/11/2018 13:26:36	50.30	49.20	47.20		50.30	46.80	1.07E+05	4.79E+04
4/11/2018 13:27:36	48.60	48.40	46.70		48.60	45.90	7.24E+04	3.89E+04
4/11/2018 13:28:36	48.60	47.90	46.40		48.60	45.90	7.24E+04	3.89E+04
4/11/2018 13:29:36	48.80	48.60	47.20		48.80	46.80	7.59E+04	4.79E+04
4/11/2018 13:30:36	52.80	50.40	47.80		52.80	47.20	1.91E+05	5.25E+04
4/11/2018 13:31:36	51.80	49.90	48.30		51.80	47.80	1.51E+05	6.03E+04

Location 2 End

Location 5 Start

4/11/2018 13:32:36	49.10	48.60	47.20		49.10	46.80	8.13E+04	4.79E+04
4/11/2018 13:33:36	55.00	50.50	47.20		55.00	45.90	3.16E+05	3.89E+04
4/11/2018 13:34:36	54.50	50.70	47.90		54.50	47.10	2.82E+05	5.13E+04
4/11/2018 13:35:36	50.80	49.40	47.50		50.80	46.80	1.20E+05	4.79E+04
4/11/2018 13:36:36	50.30	49.40	47.30		50.30	47.00	1.07E+05	5.01E+04
4/11/2018 13:37:36	57.20	56.40	50.70		57.20	47.80	5.25E+05	6.03E+04
4/11/2018 13:38:36	61.80	59.80	49.90		61.80	48.10	1.51E+06	6.46E+04
4/11/2018 13:39:36	59.00	58.10	51.70		59.00	50.60	7.94E+05	1.15E+05
4/11/2018 13:40:36	56.00	54.10	46.00		56.00	45.70	3.98E+05	3.72E+04
4/11/2018 13:41:36	52.40	52.00	46.80		52.40	46.10	1.74E+05	4.07E+04
4/11/2018 13:42:36	49.90	49.50	47.20		49.90	46.00	9.77E+04	3.98E+04
4/11/2018 13:43:36	52.20	50.50	47.10		52.20	46.30	1.66E+05	4.27E+04
4/11/2018 13:44:36	50.70	49.90	46.80		50.70	46.50	1.17E+05	4.47E+04
4/11/2018 13:45:36	49.20	48.80	47.00		49.20	46.40	8.32E+04	4.37E+04
4/11/2018 13:46:36	47.80	47.50	46.00		47.80	45.70	6.03E+04	3.72E+04
4/11/2018 13:47:36	48.40	47.60	45.50		48.40	45.20	6.92E+04	3.31E+04
4/11/2018 13:48:36	48.50	47.20	45.70		48.50	45.30	7.08E+04	3.39E+04
4/11/2018 13:49:36	64.00	53.50	46.30		64.00	45.90	2.51E+06	3.89E+04
4/11/2018 13:50:36	54.60	51.10	45.00		54.60	43.70	2.88E+05	2.34E+04
4/11/2018 13:51:36	59.70	55.10	48.90		59.70	47.90	9.33E+05	6.17E+04
4/11/2018 13:52:36	54.80	51.00	49.30		54.80	48.80	3.02E+05	7.59E+04

Location 5 End

Location 4 & 3						Location 4		Location 3					
Timestamp	Lmax-1	L10-1	L90-1	Lmax-1	Lmin-1	CountA:	58	5.06E+07	3.50E+06	CountA:	205	4.37E+07	4.24E+06
						Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min			Leq Max	Leq Min
4/10/2018 12:22:08	69.40	63.10	50.60	69.40	48.60	8.71E+06	7.24E+04	59.41	47.81			53.29	43.15
4/10/2018 12:23:08	69.30	56.60	49.50	69.30	49.30	8.51E+06	8.51E+04						
4/10/2018 12:24:08	50.50	50.00	49.60	50.50	49.30	1.12E+05	8.51E+04						
4/10/2018 12:25:08	59.00	53.60	49.80	59.00	49.60	7.94E+05	9.12E+04						
4/10/2018 12:26:08	56.60	53.00	50.30	56.60	49.90	4.57E+05	9.77E+04						
4/10/2018 12:27:08	65.10	61.00	49.80	65.10	49.40	3.24E+06	8.71E+04						
4/10/2018 12:28:08	53.40	51.00	49.50	53.40	49.20	2.19E+05	8.32E+04						
4/10/2018 12:29:08	67.00	55.80	49.40	67.00	49.10	5.01E+06	8.13E+04						
4/10/2018 12:30:08	51.70	50.10	48.80	51.70	48.50	1.48E+05	7.08E+04						
4/10/2018 12:31:08	70.00	56.70	48.70	70.00	48.20	1.00E+07	6.61E+04						
4/10/2018 12:32:08	53.40	50.70	48.10	53.40	47.80	2.19E+05	6.03E+04						
4/10/2018 12:33:08	56.50	53.10	48.20	56.50	47.90	4.47E+05	6.17E+04						
4/10/2018 12:34:08	56.30	53.90	48.30	56.30	48.00	4.27E+05	6.31E+04						
4/10/2018 12:35:08	61.80	55.20	47.80	61.80	47.60	1.51E+06	5.75E+04						
4/10/2018 12:36:08	48.20	48.20	47.80	48.20	47.60	6.61E+04	5.75E+04						
4/10/2018 12:37:08	47.70	47.70	47.60	47.70	47.40	5.89E+04	5.50E+04						
4/10/2018 12:38:08	47.70	47.80	47.60	47.70	47.40	5.89E+04	5.50E+04						
4/10/2018 12:39:08	48.10	48.00	47.60	48.10	47.50	6.46E+04	5.62E+04						
4/10/2018 12:40:08	47.80	47.80	47.70	47.80	47.50	6.03E+04	5.62E+04						
4/10/2018 12:41:08	48.10	48.00	47.70	48.10	47.40	6.46E+04	5.50E+04						
4/10/2018 12:42:08	49.50	49.00	48.00	49.50	47.80	8.91E+04	6.03E+04						
4/10/2018 12:43:08	47.90	47.90	47.60	47.90	47.50	6.17E+04	5.62E+04						
4/10/2018 12:44:08	48.20	48.10	47.70	48.20	47.50	6.61E+04	5.62E+04						
4/10/2018 12:45:08	48.40	48.30	47.90	48.40	47.70	6.92E+04	5.89E+04						
4/10/2018 12:46:08	48.40	48.30	47.80	48.40	47.60	6.92E+04	5.75E+04						
4/10/2018 12:47:08	48.70	48.50	48.10	48.70	47.80	7.41E+04	6.03E+04						
4/10/2018 12:48:08	48.70	48.40	47.80	48.70	47.60	7.41E+04	5.75E+04						
4/10/2018 12:49:08	47.90	47.90	47.70	47.90	47.50	6.17E+04	5.62E+04						
4/10/2018 12:50:08	47.90	48.00	47.70	47.90	47.60	6.17E+04	5.75E+04						
4/10/2018 12:51:08	48.00	47.90	47.60	48.00	47.40	6.31E+04	5.50E+04						
4/10/2018 12:52:08	48.00	48.00	47.70	48.00	47.40	6.31E+04	5.50E+04						
4/10/2018 12:53:08	47.70	47.70	47.60	47.70	47.40	5.89E+04	5.50E+04						
4/10/2018 12:54:08	47.80	47.90	47.60	47.80	47.40	6.03E+04	5.50E+04						
4/10/2018 12:55:08	47.80	47.80	47.60	47.80	47.40	6.03E+04	5.50E+04						
4/10/2018 12:56:08	48.20	48.00	47.80	48.20	47.60	6.61E+04	5.75E+04						
4/10/2018 12:57:08	49.30	49.00	48.00	49.30	47.70	8.51E+04	5.89E+04						
4/10/2018 12:58:08	48.70	48.20	47.50	48.70	47.20	7.41E+04	5.25E+04						
4/10/2018 12:59:08	47.70	47.60	47.20	47.70	47.00	5.89E+04	5.01E+04						
4/10/2018 13:00:08	47.50	47.50	47.20	47.50	47.00	5.62E+04	5.01E+04						
4/10/2018 13:01:08	47.90	47.80	47.40	47.90	47.20	6.17E+04	5.25E+04						
4/10/2018 13:02:08	56.70	52.60	47.60	56.70	47.40	4.68E+05	5.50E+04						
4/10/2018 13:03:08	63.70	58.60	51.20	63.70	48.70	2.34E+06	7.41E+04						
4/10/2018 13:04:08	50.90	48.10	47.40	50.90	47.20	1.23E+05	5.25E+04						
4/10/2018 13:05:08	49.00	48.50	47.50	49.00	47.30	7.94E+04	5.37E+04						
4/10/2018 13:06:08	48.90	48.20	47.40	48.90	47.10	7.76E+04	5.13E+04						
4/10/2018 13:07:08	47.60	47.40	47.10	47.60	46.90	5.75E+04	4.90E+04						
4/10/2018 13:08:08	47.30	47.30	47.10	47.30	46.90	5.37E+04	4.90E+04						
4/10/2018 13:09:08	47.70	47.40	47.10	47.70	47.00	5.89E+04	5.01E+04						
4/10/2018 13:10:08	47.80	47.70	47.30	47.80	47.10	6.03E+04	5.13E+04						

4/10/2018 13:11:08	48.10	47.80	47.50	48.10	47.20	6.46E+04	5.25E+04
4/10/2018 13:12:08	47.90	47.70	47.40	47.90	47.10	6.17E+04	5.13E+04
4/10/2018 13:13:08	48.40	48.00	47.50	48.40	47.30	6.92E+04	5.37E+04
4/10/2018 13:14:08	49.00	48.90	48.00	49.00	47.70	7.94E+04	5.89E+04
4/10/2018 13:15:08	49.40	49.00	47.80	49.40	47.70	8.71E+04	5.89E+04
4/10/2018 13:16:08	48.40	47.90	47.70	48.40	47.60	6.92E+04	5.75E+04
4/10/2018 13:17:08	50.10	48.80	47.60	50.10	47.40	1.02E+05	5.50E+04
4/10/2018 13:18:08	50.70	49.50	47.90	50.70	47.70	1.17E+05	5.89E+04
4/10/2018 13:19:08	67.10	58.00	47.90	67.10	47.60	5.13E+06	5.75E+04
4/10/2018 13:28:30	71.00	60.70	45.60	71.00	44.30	1.26E+07	2.69E+04
4/10/2018 13:29:30	72.40	68.40	49.10	72.40	48.10	1.74E+07	6.46E+04
4/10/2018 13:30:30	65.90	63.50	51.10	65.90	49.70	3.89E+06	9.33E+04
4/10/2018 13:31:30	62.80	57.20	46.70	62.80	46.00	1.91E+06	3.98E+04
4/10/2018 13:32:30	49.20	47.80	46.00	49.20	45.60	8.32E+04	3.63E+04
4/10/2018 13:33:30	46.20	46.10	45.40	46.20	45.00	4.17E+04	3.16E+04
4/10/2018 13:34:30	52.20	49.50	45.90	52.20	45.60	1.66E+05	3.63E+04
4/10/2018 13:35:30	50.70	49.40	45.90	50.70	45.50	1.17E+05	3.55E+04
4/10/2018 13:36:30	46.60	46.00	45.00	46.60	44.50	4.57E+04	2.82E+04
4/10/2018 13:37:30	45.60	45.40	44.90	45.60	44.60	3.63E+04	2.88E+04
4/10/2018 13:38:30	45.30	45.10	44.40	45.30	44.10	3.39E+04	2.57E+04
4/10/2018 13:39:30	45.60	45.60	44.80	45.60	44.40	3.63E+04	2.75E+04
4/10/2018 13:40:30	51.20	46.60	45.20	51.20	44.90	1.32E+05	3.09E+04
4/10/2018 13:41:30	48.10	46.50	45.80	48.10	45.40	6.46E+04	3.47E+04
4/10/2018 13:42:30	47.20	46.00	45.60	47.20	45.30	5.25E+04	3.39E+04
4/10/2018 13:43:30	46.30	45.90	45.40	46.30	45.10	4.27E+04	3.24E+04
4/10/2018 13:44:30	47.00	46.30	45.60	47.00	45.20	5.01E+04	3.31E+04
4/10/2018 13:45:30	46.90	46.50	45.50	46.90	45.20	4.90E+04	3.31E+04
4/10/2018 13:46:30	47.00	46.50	45.70	47.00	45.40	5.01E+04	3.47E+04
4/10/2018 13:47:30	47.60	46.40	45.50	47.60	45.20	5.75E+04	3.31E+04
4/10/2018 13:48:30	47.80	46.90	45.80	47.80	45.60	6.03E+04	3.63E+04
4/10/2018 13:49:30	47.90	47.30	45.60	47.90	45.00	6.17E+04	3.16E+04
4/10/2018 13:50:30	46.10	45.70	45.10	46.10	44.80	4.07E+04	3.02E+04
4/10/2018 13:51:30	45.20	45.20	44.70	45.20	44.30	3.31E+04	2.69E+04
4/10/2018 13:52:30	46.20	45.40	44.40	46.20	44.20	4.17E+04	2.63E+04
4/10/2018 13:53:30	47.20	45.80	44.90	47.20	44.60	5.25E+04	2.88E+04
4/10/2018 13:54:30	45.90	45.30	44.80	45.90	44.40	3.89E+04	2.75E+04
4/10/2018 13:55:30	47.10	45.50	44.70	47.10	44.50	5.13E+04	2.82E+04
4/10/2018 13:56:30	45.60	45.20	44.60	45.60	44.20	3.63E+04	2.63E+04
4/10/2018 13:57:30	46.20	45.60	44.30	46.20	44.00	4.17E+04	2.51E+04
4/10/2018 13:58:30	49.40	44.90	44.10	49.40	43.90	8.71E+04	2.45E+04
4/10/2018 13:59:30	44.70	44.40	43.50	44.70	43.20	2.95E+04	2.09E+04
4/10/2018 14:00:30	44.40	43.90	43.30	44.40	42.90	2.75E+04	1.95E+04
4/10/2018 14:01:30	48.90	45.30	43.60	48.90	43.10	7.76E+04	2.04E+04
4/10/2018 14:02:30	46.30	45.10	43.50	46.30	43.20	4.27E+04	2.09E+04
4/10/2018 14:03:30	44.10	43.80	43.10	44.10	42.90	2.57E+04	1.95E+04
4/10/2018 14:04:30	43.70	43.50	43.00	43.70	42.80	2.34E+04	1.91E+04
4/10/2018 14:05:30	44.70	43.80	43.10	44.70	42.90	2.95E+04	1.95E+04
4/10/2018 14:06:30	43.60	43.40	43.00	43.60	42.70	2.29E+04	1.86E+04
4/10/2018 14:07:30	44.10	43.70	43.00	44.10	42.80	2.57E+04	1.91E+04
4/10/2018 14:08:30	45.10	44.00	43.30	45.10	42.70	3.24E+04	1.86E+04
4/10/2018 14:09:30	44.60	43.50	43.10	44.60	42.90	2.88E+04	1.95E+04
4/10/2018 14:10:30	44.70	43.80	43.00	44.70	42.70	2.95E+04	1.86E+04

Location 4 End
Location 3 Start

4/10/2018 14:11:30	46.70	46.20	43.60	46.70	43.20	4.68E+04	2.09E+04
4/10/2018 14:12:30	43.80	43.40	43.00	43.80	42.70	2.40E+04	1.86E+04
4/10/2018 14:13:30	44.10	43.60	43.10	44.10	42.90	2.57E+04	1.95E+04
4/10/2018 14:14:30	55.70	50.10	43.00	55.70	42.60	3.72E+05	1.82E+04
4/10/2018 14:15:30	48.10	45.70	43.10	48.10	42.80	6.46E+04	1.91E+04
4/10/2018 14:16:30	45.90	43.90	42.80	45.90	42.60	3.89E+04	1.82E+04
4/10/2018 14:17:30	43.40	43.00	42.70	43.40	42.40	2.19E+04	1.74E+04
4/10/2018 14:18:30	42.90	42.90	42.70	42.90	42.40	1.95E+04	1.74E+04
4/10/2018 14:19:30	46.30	44.60	42.80	46.30	42.60	4.27E+04	1.82E+04
4/10/2018 14:20:30	44.50	43.70	42.90	44.50	42.60	2.82E+04	1.82E+04
4/10/2018 14:21:30	43.30	43.20	42.50	43.30	42.20	2.14E+04	1.66E+04
4/10/2018 14:22:30	43.90	43.10	42.40	43.90	42.10	2.45E+04	1.62E+04
4/10/2018 14:23:30	45.50	44.70	42.80	45.50	42.40	3.55E+04	1.74E+04
4/10/2018 14:24:30	45.00	44.50	43.10	45.00	42.80	3.16E+04	1.91E+04
4/10/2018 14:25:30	44.00	43.40	42.80	44.00	42.50	2.51E+04	1.78E+04
4/10/2018 14:26:30	43.50	43.30	42.90	43.50	42.60	2.24E+04	1.82E+04
4/10/2018 14:27:30	43.50	43.30	42.80	43.50	42.40	2.24E+04	1.74E+04
4/10/2018 14:28:30	43.90	43.60	42.80	43.90	42.60	2.45E+04	1.82E+04
4/10/2018 14:29:30	46.60	44.10	42.90	46.60	42.60	4.57E+04	1.82E+04
4/10/2018 14:30:30	45.90	45.70	44.00	45.90	43.50	3.89E+04	2.24E+04
4/10/2018 14:31:30	45.20	44.70	43.70	45.20	43.50	3.31E+04	2.24E+04
4/10/2018 14:32:30	44.50	43.90	43.30	44.50	43.10	2.82E+04	2.04E+04
4/10/2018 14:33:30	44.10	43.90	43.10	44.10	42.80	2.57E+04	1.91E+04
4/10/2018 14:34:30	43.50	43.50	43.00	43.50	42.70	2.24E+04	1.86E+04
4/10/2018 14:35:30	43.20	43.10	42.30	43.20	42.10	2.09E+04	1.62E+04
4/10/2018 14:36:30	42.90	42.80	42.20	42.90	41.90	1.95E+04	1.55E+04
4/10/2018 14:37:30	43.20	43.10	42.80	43.20	42.60	2.09E+04	1.82E+04
4/10/2018 14:38:30	50.70	46.90	42.80	50.70	42.60	1.17E+05	1.82E+04
4/10/2018 14:39:30	49.60	46.30	43.30	49.60	42.90	9.12E+04	1.95E+04
4/10/2018 14:40:30	43.90	43.40	42.70	43.90	42.50	2.45E+04	1.78E+04
4/10/2018 14:41:30	43.60	43.40	42.70	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 14:42:30	46.20	44.40	43.10	46.20	42.90	4.17E+04	1.95E+04
4/10/2018 14:43:30	47.50	46.50	43.60	47.50	43.20	5.62E+04	2.09E+04
4/10/2018 14:44:30	44.30	43.50	42.80	44.30	42.50	2.69E+04	1.78E+04
4/10/2018 14:45:30	44.60	43.80	42.80	44.60	42.40	2.88E+04	1.74E+04
4/10/2018 14:46:30	43.60	43.10	42.30	43.60	42.00	2.29E+04	1.58E+04
4/10/2018 14:47:30	43.70	43.10	42.70	43.70	42.40	2.34E+04	1.74E+04
4/10/2018 14:48:30	44.50	43.00	42.30	44.50	42.00	2.82E+04	1.58E+04
4/10/2018 14:49:30	44.10	43.70	42.30	44.10	42.10	2.57E+04	1.62E+04
4/10/2018 14:50:30	45.60	43.80	42.90	45.60	42.60	3.63E+04	1.82E+04
4/10/2018 14:51:30	43.30	43.20	42.70	43.30	42.40	2.14E+04	1.74E+04
4/10/2018 14:52:30	43.20	42.80	42.30	43.20	42.00	2.09E+04	1.58E+04
4/10/2018 14:53:30	49.80	47.50	42.40	49.80	41.90	9.55E+04	1.55E+04
4/10/2018 14:54:30	48.80	47.70	44.70	48.80	43.90	7.59E+04	2.45E+04
4/10/2018 14:55:30	47.50	45.80	43.40	47.50	43.00	5.62E+04	2.00E+04
4/10/2018 14:56:30	46.00	44.80	43.10	46.00	42.90	3.98E+04	1.95E+04
4/10/2018 14:57:30	43.50	43.20	42.60	43.50	42.30	2.24E+04	1.70E+04
4/10/2018 14:58:30	43.60	43.30	42.70	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 14:59:30	44.90	44.40	43.00	44.90	42.50	3.09E+04	1.78E+04
4/10/2018 15:00:30	45.30	43.90	42.40	45.30	42.10	3.39E+04	1.62E+04
4/10/2018 15:01:30	44.50	42.90	42.30	44.50	42.00	2.82E+04	1.58E+04
4/10/2018 15:02:30	44.40	43.60	42.50	44.40	42.30	2.75E+04	1.70E+04

4/10/2018 15:03:30	46.50	45.50	43.10	46.50	42.80	4.47E+04	1.91E+04
4/10/2018 15:04:30	46.20	44.60	43.30	46.20	42.50	4.17E+04	1.78E+04
4/10/2018 15:05:30	45.30	43.00	42.40	45.30	42.10	3.39E+04	1.62E+04
4/10/2018 15:06:30	43.70	42.80	42.30	43.70	42.10	2.34E+04	1.62E+04
4/10/2018 15:07:30	44.40	43.80	42.70	44.40	42.40	2.75E+04	1.74E+04
4/10/2018 15:08:30	45.80	44.20	42.90	45.80	42.60	3.80E+04	1.82E+04
4/10/2018 15:09:30	44.20	43.60	42.70	44.20	42.40	2.63E+04	1.74E+04
4/10/2018 15:10:30	43.80	43.30	42.50	43.80	42.20	2.40E+04	1.66E+04
4/10/2018 15:11:30	43.40	42.80	42.30	43.40	42.00	2.19E+04	1.58E+04
4/10/2018 15:12:30	43.50	43.30	42.30	43.50	42.00	2.24E+04	1.58E+04
4/10/2018 15:13:30	42.90	42.60	42.20	42.90	41.90	1.95E+04	1.55E+04
4/10/2018 15:14:30	43.20	43.10	42.50	43.20	42.30	2.09E+04	1.70E+04
4/10/2018 15:15:30	45.70	44.60	43.00	45.70	42.70	3.72E+04	1.86E+04
4/10/2018 15:16:30	45.30	43.70	42.60	45.30	42.30	3.39E+04	1.70E+04
4/10/2018 15:17:30	43.80	43.10	42.60	43.80	42.20	2.40E+04	1.66E+04
4/10/2018 15:18:30	47.30	45.20	42.80	47.30	42.50	5.37E+04	1.78E+04
4/10/2018 15:19:30	45.40	44.70	43.50	45.40	43.00	3.47E+04	2.00E+04
4/10/2018 15:20:30	44.00	43.20	42.70	44.00	42.40	2.51E+04	1.74E+04
4/10/2018 15:21:30	45.00	44.50	42.90	45.00	42.60	3.16E+04	1.82E+04
4/10/2018 15:22:30	44.90	44.60	42.80	44.90	42.40	3.09E+04	1.74E+04
4/10/2018 15:23:30	43.00	42.80	42.50	43.00	42.30	2.00E+04	1.70E+04
4/10/2018 15:24:30	43.40	43.30	42.70	43.40	42.20	2.19E+04	1.66E+04
4/10/2018 15:25:30	44.60	44.10	42.80	44.60	42.20	2.88E+04	1.66E+04
4/10/2018 15:26:30	44.50	44.40	43.10	44.50	42.70	2.82E+04	1.86E+04
4/10/2018 15:27:30	44.50	43.80	42.80	44.50	42.30	2.82E+04	1.70E+04
4/10/2018 15:28:30	44.00	43.60	42.60	44.00	42.40	2.51E+04	1.74E+04
4/10/2018 15:29:30	43.20	42.90	42.20	43.20	41.90	2.09E+04	1.55E+04
4/10/2018 15:30:30	45.00	44.70	42.50	45.00	42.10	3.16E+04	1.62E+04
4/10/2018 15:31:30	43.40	43.20	42.40	43.40	42.10	2.19E+04	1.62E+04
4/10/2018 15:32:30	43.50	43.30	42.30	43.50	42.00	2.24E+04	1.58E+04
4/10/2018 15:33:30	43.20	42.70	42.00	43.20	41.70	2.09E+04	1.48E+04
4/10/2018 15:34:30	42.80	42.50	42.00	42.80	41.80	1.91E+04	1.51E+04
4/10/2018 15:35:30	43.40	42.80	42.10	43.40	41.90	2.19E+04	1.55E+04
4/10/2018 15:36:30	43.90	43.00	42.40	43.90	42.10	2.45E+04	1.62E+04
4/10/2018 15:37:30	46.90	44.80	42.20	46.90	41.80	4.90E+04	1.51E+04
4/10/2018 15:38:30	52.10	49.60	43.50	52.10	42.90	1.62E+05	1.95E+04
4/10/2018 15:39:30	47.20	45.70	43.00	47.20	42.40	5.25E+04	1.74E+04
4/10/2018 15:40:30	46.90	45.40	42.50	46.90	42.30	4.90E+04	1.70E+04
4/10/2018 15:41:30	49.20	47.50	43.40	49.20	43.00	8.32E+04	2.00E+04
4/10/2018 15:42:30	43.70	43.40	42.90	43.70	42.60	2.34E+04	1.82E+04
4/10/2018 15:43:30	43.30	42.90	42.60	43.30	42.40	2.14E+04	1.74E+04
4/10/2018 15:44:30	44.00	43.80	42.90	44.00	42.70	2.51E+04	1.86E+04
4/10/2018 15:45:30	44.90	44.10	42.40	44.90	42.20	3.09E+04	1.66E+04
4/10/2018 15:46:30	45.10	44.60	42.70	45.10	42.20	3.24E+04	1.66E+04
4/10/2018 15:47:30	45.50	45.10	42.80	45.50	42.50	3.55E+04	1.78E+04
4/10/2018 15:48:30	43.90	43.50	42.70	43.90	42.40	2.45E+04	1.74E+04
4/10/2018 15:49:30	43.80	43.40	42.60	43.80	42.40	2.40E+04	1.74E+04
4/10/2018 15:50:30	45.80	44.70	42.80	45.80	42.40	3.80E+04	1.74E+04
4/10/2018 15:51:30	45.00	44.40	43.10	45.00	42.70	3.16E+04	1.86E+04
4/10/2018 15:52:30	43.60	43.40	42.80	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 15:53:30	43.00	43.00	42.50	43.00	42.30	2.00E+04	1.70E+04
4/10/2018 15:54:30	43.40	43.20	42.50	43.40	42.20	2.19E+04	1.66E+04

4/10/2018 15:55:30	46.30	45.40	43.50	46.30	43.20	4.27E+04	2.09E+04
4/10/2018 15:56:30	45.70	43.70	42.50	45.70	42.10	3.72E+04	1.62E+04
4/10/2018 15:57:30	44.20	43.00	42.40	44.20	42.10	2.63E+04	1.62E+04
4/10/2018 15:58:30	43.00	42.90	42.30	43.00	42.00	2.00E+04	1.58E+04
4/10/2018 15:59:30	43.50	43.30	42.80	43.50	42.40	2.24E+04	1.74E+04
4/10/2018 16:00:30	43.50	43.30	42.50	43.50	42.10	2.24E+04	1.62E+04
4/10/2018 16:01:30	48.60	47.10	42.80	48.60	42.50	7.24E+04	1.78E+04
4/10/2018 16:02:30	47.30	46.20	43.60	47.30	43.20	5.37E+04	2.09E+04
4/10/2018 16:03:30	44.00	43.80	43.00	44.00	42.70	2.51E+04	1.86E+04
4/10/2018 16:04:30	44.90	44.30	43.20	44.90	42.90	3.09E+04	1.95E+04
4/10/2018 16:05:30	44.60	44.20	43.00	44.60	42.70	2.88E+04	1.86E+04
4/10/2018 16:06:30	44.20	44.00	43.00	44.20	42.60	2.63E+04	1.82E+04
4/10/2018 16:07:30	45.10	44.10	42.80	45.10	42.50	3.24E+04	1.78E+04
4/10/2018 16:08:30	44.30	43.70	42.70	44.30	42.50	2.69E+04	1.78E+04
4/10/2018 16:09:30	44.80	44.30	42.90	44.80	42.70	3.02E+04	1.86E+04
4/10/2018 16:10:30	45.30	44.40	43.10	45.30	42.70	3.39E+04	1.86E+04
4/10/2018 16:11:30	44.80	44.70	43.60	44.80	43.40	3.02E+04	2.19E+04
4/10/2018 16:12:30	44.90	44.20	43.60	44.90	43.30	3.09E+04	2.14E+04
4/10/2018 16:13:30	45.20	44.60	43.50	45.20	43.10	3.31E+04	2.04E+04
4/10/2018 16:14:30	44.20	44.00	42.80	44.20	42.60	2.63E+04	1.82E+04
4/10/2018 16:15:30	44.60	44.00	42.90	44.60	42.70	2.88E+04	1.86E+04
4/10/2018 16:16:30	44.80	44.50	42.90	44.80	42.70	3.02E+04	1.86E+04
4/10/2018 16:17:30	44.70	44.20	42.90	44.70	42.70	2.95E+04	1.86E+04
4/10/2018 16:18:30	45.10	44.70	43.40	45.10	43.00	3.24E+04	2.00E+04
4/10/2018 16:19:30	46.10	45.60	43.80	46.10	43.40	4.07E+04	2.19E+04
4/10/2018 16:20:30	45.70	45.50	43.90	45.70	43.60	3.72E+04	2.29E+04
4/10/2018 16:21:30	45.70	45.60	43.90	45.70	43.60	3.72E+04	2.29E+04
4/10/2018 16:22:30	50.00	45.30	43.80	50.00	43.30	1.00E+05	2.14E+04
4/10/2018 16:23:30	44.80	44.50	43.60	44.80	43.10	3.02E+04	2.04E+04
4/10/2018 16:24:30	46.00	45.40	43.90	46.00	43.30	3.98E+04	2.14E+04
4/10/2018 16:25:30	44.90	44.30	43.20	44.90	42.90	3.09E+04	1.95E+04
4/10/2018 16:26:30	46.10	44.90	43.40	46.10	42.90	4.07E+04	1.95E+04
4/10/2018 16:27:30	44.60	44.50	43.40	44.60	43.10	2.88E+04	2.04E+04
4/10/2018 16:28:30	44.80	44.30	43.10	44.80	42.60	3.02E+04	1.82E+04
4/10/2018 16:29:30	44.70	44.40	43.10	44.70	42.70	2.95E+04	1.86E+04
4/10/2018 16:30:30	44.70	44.60	43.50	44.70	43.20	2.95E+04	2.09E+04
4/10/2018 16:31:30	44.80	44.50	43.00	44.80	42.80	3.02E+04	1.91E+04
4/10/2018 16:32:30	46.00	44.70	43.10	46.00	42.80	3.98E+04	1.91E+04
4/10/2018 16:33:30	46.00	45.80	43.80	46.00	43.50	3.98E+04	2.24E+04
4/10/2018 16:34:30	47.10	46.70	43.60	47.10	43.40	5.13E+04	2.19E+04
4/10/2018 16:35:30	45.10	44.90	43.50	45.10	43.20	3.24E+04	2.09E+04
4/10/2018 16:36:30	44.70	44.40	43.00	44.70	42.70	2.95E+04	1.86E+04
4/10/2018 16:37:30	44.40	44.30	42.90	44.40	42.60	2.75E+04	1.82E+04
4/10/2018 16:38:30	49.00	44.80	43.10	49.00	42.70	7.94E+04	1.86E+04
4/10/2018 16:39:30	44.70	44.40	42.80	44.70	42.30	2.95E+04	1.70E+04
4/10/2018 16:40:30	44.10	43.90	42.60	44.10	42.30	2.57E+04	1.70E+04
4/10/2018 16:41:30	44.40	44.20	42.60	44.40	42.30	2.75E+04	1.70E+04
4/10/2018 16:42:30	44.60	44.40	42.90	44.60	42.60	2.88E+04	1.82E+04
4/10/2018 16:43:30	45.30	45.10	43.40	45.30	42.90	3.39E+04	1.95E+04
4/10/2018 16:44:30	48.90	46.20	43.70	48.90	43.20	7.76E+04	2.09E+04
4/10/2018 16:45:30	44.70	44.40	42.90	44.70	42.50	2.95E+04	1.78E+04
4/10/2018 16:46:30	44.30	43.70	42.70	44.30	42.30	2.69E+04	1.70E+04

4/10/2018 16:47:30	47.30	44.40	42.90	47.30	42.50	5.37E+04	1.78E+04
4/10/2018 16:48:30	45.10	44.80	43.60	45.10	43.40	3.24E+04	2.19E+04
4/10/2018 16:49:30	45.50	45.00	43.30	45.50	42.90	3.55E+04	1.95E+04
4/10/2018 16:50:30	44.20	43.90	42.80	44.20	42.50	2.63E+04	1.78E+04
4/10/2018 16:51:30	44.90	44.50	42.80	44.90	42.50	3.09E+04	1.78E+04
4/10/2018 16:52:30	45.30	45.00	44.00	45.30	43.70	3.39E+04	2.34E+04

Location 3 End

Location 6		
Timestamp	Lmax-1	CountA: Ten Lmax/10
4/9/2018 11:01:06	71.20	1.32E+07
4/9/2018 11:02:06	69.80	9.55E+06
4/9/2018 11:03:06	71.30	1.35E+07
4/9/2018 11:04:06	66.30	4.27E+06
4/9/2018 11:05:06	65.40	3.47E+06
4/9/2018 11:06:06	75.60	3.63E+07
4/9/2018 11:07:06	70.10	1.02E+07
4/9/2018 11:08:06	65.40	3.47E+06
4/9/2018 11:09:06	66.10	4.07E+06
4/9/2018 11:10:06	64.90	3.09E+06
4/9/2018 11:11:06	67.60	5.75E+06
4/9/2018 11:12:06	70.30	1.07E+07
4/9/2018 11:13:06	67.00	5.01E+06
4/9/2018 11:14:06	75.40	3.47E+07
4/9/2018 11:15:06	74.60	2.88E+07
4/9/2018 11:16:06	69.60	9.12E+06
4/9/2018 11:17:06	67.80	6.03E+06
4/9/2018 11:18:06	64.70	2.95E+06
4/9/2018 11:19:06	65.30	3.39E+06
4/9/2018 11:20:06	65.40	3.47E+06
4/9/2018 11:21:06	70.60	1.15E+07
4/9/2018 11:22:06	60.00	1.00E+06
4/9/2018 11:23:06	68.20	6.61E+06
4/9/2018 11:24:06	66.10	4.07E+06
4/9/2018 11:25:06	70.00	1.00E+07
4/9/2018 11:26:06	69.60	9.12E+06
4/9/2018 11:27:06	69.40	8.71E+06
4/9/2018 11:28:06	68.10	6.46E+06
4/9/2018 11:29:06	66.50	4.47E+06
4/9/2018 11:30:06	66.10	4.07E+06
4/9/2018 11:31:06	65.80	3.80E+06
4/9/2018 11:32:06	68.30	6.76E+06
4/9/2018 11:33:06	68.90	7.76E+06
4/9/2018 11:34:06	64.70	2.95E+06
4/9/2018 11:35:06	75.60	3.63E+07
4/9/2018 11:36:06	68.20	6.61E+06
4/9/2018 11:37:06	72.40	1.74E+07
4/9/2018 11:38:06	75.50	3.55E+07
4/9/2018 11:39:06	71.30	1.35E+07
4/9/2018 11:40:06	69.90	9.77E+06
4/9/2018 11:41:06	69.50	8.91E+06
4/9/2018 11:42:06	65.10	3.24E+06
4/9/2018 11:43:06	61.70	1.48E+06
4/9/2018 11:44:06	71.40	1.38E+07
4/9/2018 11:45:06	71.80	1.51E+07
4/9/2018 11:46:06	63.30	2.14E+06
4/9/2018 11:47:06	63.40	2.19E+06
4/9/2018 11:48:06	66.20	4.17E+06
4/9/2018 11:49:06	50.70	1.17E+05

93 6.57E+08

Leq Max
68.49

4/9/2018 11:50:06	49.90	9.77E+04
4/9/2018 11:51:06	63.20	2.09E+06
4/9/2018 11:52:06	63.90	2.45E+06
4/9/2018 11:53:06	63.60	2.29E+06
4/9/2018 11:54:06	64.40	2.75E+06
4/9/2018 11:55:06	63.00	2.00E+06
4/9/2018 11:56:06	50.00	1.00E+05
4/9/2018 11:57:06	62.90	1.95E+06
4/9/2018 11:58:06	49.40	8.71E+04
4/9/2018 11:59:06	66.20	4.17E+06
4/9/2018 12:00:06	66.90	4.90E+06
4/9/2018 12:01:06	63.50	2.24E+06
4/9/2018 12:02:06	68.30	6.76E+06
4/9/2018 12:03:06	65.80	3.80E+06
4/9/2018 12:04:06	49.60	9.12E+04
4/9/2018 12:05:06	51.40	1.38E+05
4/9/2018 12:06:06	65.40	3.47E+06
4/9/2018 12:07:06	50.00	1.00E+05
4/9/2018 12:08:06	61.50	1.41E+06
4/9/2018 12:09:06	65.60	3.63E+06
4/9/2018 12:10:06	63.60	2.29E+06
4/9/2018 12:11:06	62.30	1.70E+06
4/9/2018 12:12:06	65.60	3.63E+06
4/9/2018 12:13:06	67.60	5.75E+06
4/9/2018 12:14:06	64.60	2.88E+06
4/9/2018 12:15:06	70.30	1.07E+07
4/9/2018 12:16:06	66.90	4.90E+06
4/9/2018 12:17:06	76.10	4.07E+07
4/9/2018 12:18:06	49.50	8.91E+04
4/9/2018 12:19:06	50.10	1.02E+05
4/9/2018 12:20:06	65.10	3.24E+06
4/9/2018 12:21:06	67.30	5.37E+06
4/9/2018 12:22:06	50.80	1.20E+05
4/9/2018 12:23:06	50.90	1.23E+05
4/9/2018 12:24:06	65.80	3.80E+06
4/9/2018 12:25:06	63.20	2.09E+06
4/9/2018 12:26:06	66.00	3.98E+06
4/9/2018 12:27:06	64.60	2.88E+06
4/9/2018 12:28:06	73.20	2.09E+07
4/9/2018 12:29:06	67.00	5.01E+06
4/9/2018 12:30:06	62.50	1.78E+06
4/9/2018 12:31:06	71.70	1.48E+07
4/9/2018 12:32:06	65.30	3.39E+06
4/9/2018 12:33:06	65.60	3.63E+06

Location 7						
Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)			2.69E+08	1.11E+06
Device	SoundPro RS232(A)	SoundPro RS232(A)	CountA:	26	Leq Max	Leq Min
4/3/2018 10:43	67.7	48.1	Ten Lmax/10	Ten Lmin/10	70.16	46.31
4/3/2018 10:47	68.6	46.4	5.89E+06	6.46E+04		
4/3/2018 10:48	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:48	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:49	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:50	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:51	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:52	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:53	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:54	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:55	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:56	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:57	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:58	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:59	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 11:00	72.1	46.4	7.24E+06	4.37E+04		
4/3/2018 11:01	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:02	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:03	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:04	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:05	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:06	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:07	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:08	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:09	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:10	72.1	46.4	1.62E+07	4.37E+04		

Location 2 & 5							Location 2		Location 5			
Timestamp	Lmax-1	L10-1	L90-1	Lavg-1	Lmax-1	Lmin-1	CountA:	Ten Lmax/10	Ten Lmin/10	CountA:	Leq Max	Leq Min
4/11/2018 11:47:19	67.60	64.00	53.50		67.60	51.50	62	5.75E+06	1.41E+05	60	59.91	43.31
4/11/2018 11:48:19	70.50	64.70	50.90		70.50	47.50		1.12E+07	5.62E+04			
4/11/2018 11:49:19	61.50	58.70	48.30		61.50	47.40		1.41E+06	5.50E+04			
4/11/2018 11:50:19	71.60	62.60	47.00		71.60	46.80		1.45E+07	4.79E+04			
4/11/2018 11:51:19	61.50	56.30	47.20		61.50	47.00		1.41E+06	5.01E+04			
4/11/2018 11:52:19	68.80	62.90	44.80		68.80	44.20		7.59E+06	2.63E+04			
4/11/2018 11:53:19	60.40	53.50	45.30		60.40	44.20		1.10E+06	2.63E+04			
4/11/2018 11:54:19	65.70	52.40	44.20		65.70	43.20		3.72E+06	2.09E+04			
4/11/2018 11:55:19	62.90	57.10	44.10		62.90	43.00		1.95E+06	2.00E+04			
4/11/2018 11:56:19	44.20	43.40	42.30		44.20	42.10		2.63E+04	1.62E+04			
4/11/2018 11:57:19	50.80	44.30	41.30		50.80	41.10		1.20E+05	1.29E+04			
4/11/2018 11:58:19	43.40	43.20	41.70		43.40	41.40		2.19E+04	1.38E+04			
4/11/2018 11:59:19	44.30	44.00	42.50		44.30	42.20		2.69E+04	1.66E+04			
4/11/2018 12:00:19	45.80	45.00	42.10		45.80	41.80		3.80E+04	1.51E+04			
4/11/2018 12:01:19	53.30	49.10	43.90		53.30	43.00		2.14E+05	2.00E+04			
4/11/2018 12:02:19	51.80	48.60	44.90		51.80	44.00		1.51E+05	2.51E+04			
4/11/2018 12:03:19	46.60	45.00	42.40		46.60	42.10		4.57E+04	1.62E+04			
4/11/2018 12:04:19	44.10	43.60	42.50		44.10	41.70		2.57E+04	1.48E+04			
4/11/2018 12:05:19	43.90	43.20	41.90		43.90	41.50		2.45E+04	1.41E+04			
4/11/2018 12:06:19	42.40	42.30	41.60		42.40	41.30		1.74E+04	1.35E+04			
4/11/2018 12:07:19	41.90	41.30	40.60		41.90	40.20		1.55E+04	1.05E+04			
4/11/2018 12:08:19	42.00	41.20	40.40		42.00	40.10		1.58E+04	1.02E+04			
4/11/2018 12:09:19	42.40	42.10	41.00		42.40	40.60		1.74E+04	1.15E+04			
4/11/2018 12:10:19	42.00	41.60	40.70		42.00	40.30		1.58E+04	1.07E+04			
4/11/2018 12:11:19	42.30	42.10	41.30		42.30	41.00		1.70E+04	1.26E+04			
4/11/2018 12:12:19	43.00	42.70	41.20		43.00	40.70		2.00E+04	1.17E+04			
4/11/2018 12:13:19	41.60	41.10	40.60		41.60	40.30		1.45E+04	1.07E+04			
4/11/2018 12:14:19	41.50	41.10	40.70		41.50	40.50		1.41E+04	1.12E+04			
4/11/2018 12:15:19	41.30	41.30	40.70		41.30	40.40		1.35E+04	1.10E+04			
4/11/2018 12:16:19	43.90	42.30	41.10		43.90	40.80		2.45E+04	1.20E+04			
4/11/2018 12:17:19	44.70	42.80	41.10		44.70	40.70		2.95E+04	1.17E+04			
4/11/2018 12:18:19	48.80	46.30	40.80		48.80	40.50		7.59E+04	1.12E+04			
4/11/2018 12:19:19	46.50	45.40	41.80		46.50	41.10		4.47E+04	1.29E+04			
4/11/2018 12:20:19	42.60	41.60	40.60		42.60	40.30		1.82E+04	1.07E+04			
4/11/2018 12:21:19	41.60	41.10	40.60		41.60	40.30		1.45E+04	1.07E+04			
4/11/2018 12:22:19	41.10	40.90	40.30		41.10	40.00		1.29E+04	1.00E+04			
4/11/2018 12:23:19	40.80	40.60	40.30		40.80	40.00		1.20E+04	1.00E+04			
4/11/2018 12:24:19	40.70	40.60	40.30		40.70	40.10		1.17E+04	1.02E+04			
4/11/2018 12:25:19	43.70	40.90	40.40		43.70	40.10		2.34E+04	1.02E+04			
4/11/2018 12:26:19	46.60	44.20	41.40		46.60	41.00		4.57E+04	1.26E+04			
4/11/2018 12:27:19	42.90	41.80	40.90		42.90	40.60		1.95E+04	1.15E+04			
4/11/2018 12:28:19	41.80	41.10	40.60		41.80	40.20		1.51E+04	1.05E+04			
4/11/2018 12:29:19	43.00	41.90	41.10		43.00	40.70		2.00E+04	1.17E+04			
4/11/2018 12:30:19	41.30	41.20	40.60		41.30	40.30		1.35E+04	1.07E+04			
4/11/2018 12:31:19	42.50	41.90	40.60		42.50	40.30		1.78E+04	1.07E+04			
4/11/2018 12:32:19	46.30	41.00	40.40		46.30	40.00		4.27E+04	1.00E+04			
4/11/2018 12:33:19	45.90	44.50	41.30		45.90	40.70		3.89E+04	1.17E+04			
4/11/2018 12:34:19	47.10	46.60	43.00		47.10	42.00		5.13E+04	1.58E+04			
4/11/2018 12:35:19	46.00	45.50	43.60		46.00	43.00		3.98E+04	2.00E+04			

4/11/2018 12:36:19	48.70	46.90	44.70		48.70	43.50	7.41E+04	2.24E+04
4/11/2018 12:37:19	47.40	46.30	44.40		47.40	44.10	5.50E+04	2.57E+04
4/11/2018 12:38:19	55.10	48.20	44.40		55.10	43.70	3.24E+05	2.34E+04
4/11/2018 12:39:19	54.10	51.60	45.50		54.10	44.30	2.57E+05	2.69E+04
4/11/2018 12:40:19	51.70	49.10	44.80		51.70	44.00	1.48E+05	2.51E+04
4/11/2018 12:41:19	51.90	49.00	45.50		51.90	44.70	1.55E+05	2.95E+04
4/11/2018 12:42:19	50.30	47.10	45.00		50.30	44.10	1.07E+05	2.57E+04
4/11/2018 12:43:19	50.90	46.30	43.90		50.90	43.60	1.23E+05	2.29E+04
4/11/2018 12:44:19	47.20	46.30	44.60		47.20	43.80	5.25E+04	2.40E+04
4/11/2018 12:45:19	50.00	48.40	45.40		50.00	44.20	1.00E+05	2.63E+04
4/11/2018 12:46:19	50.20	48.70	46.60		50.20	45.10	1.05E+05	3.24E+04
4/11/2018 12:47:19	49.30	48.70	46.20		49.30	45.50	8.51E+04	3.55E+04
4/11/2018 12:48:19	69.60	52.80	48.60		69.60	47.20	9.12E+06	5.25E+04
4/11/2018 12:53:36	70.30	56.30	50.00		70.30	48.10	1.07E+07	6.46E+04
4/11/2018 12:54:36	56.30	50.60	47.30		56.30	46.20	4.27E+05	4.17E+04
4/11/2018 12:55:36	54.80	52.70	47.10		54.80	46.40	3.02E+05	4.37E+04
4/11/2018 12:56:36	55.10	54.10	47.90		55.10	47.20	3.24E+05	5.25E+04
4/11/2018 12:57:36	52.50	51.60	48.20		52.50	46.90	1.78E+05	4.90E+04
4/11/2018 12:58:36	49.80	48.90	46.60		49.80	46.00	9.55E+04	3.98E+04
4/11/2018 12:59:36	51.00	50.10	46.60		51.00	45.90	1.26E+05	3.89E+04
4/11/2018 13:00:36	55.40	53.50	50.30		55.40	48.90	3.47E+05	7.76E+04
4/11/2018 13:01:36	53.50	51.70	48.10		53.50	46.70	2.24E+05	4.68E+04
4/11/2018 13:02:36	53.00	51.80	46.70		53.00	46.10	2.00E+05	4.07E+04
4/11/2018 13:03:36	48.50	47.70	45.10		48.50	44.80	7.08E+04	3.02E+04
4/11/2018 13:04:36	47.50	46.40	44.90		47.50	44.50	5.62E+04	2.82E+04
4/11/2018 13:05:36	47.50	46.50	45.70		47.50	45.40	5.62E+04	3.47E+04
4/11/2018 13:06:36	46.60	46.40	45.60		46.60	45.40	4.57E+04	3.47E+04
4/11/2018 13:07:36	46.50	46.40	45.40		46.50	45.20	4.47E+04	3.31E+04
4/11/2018 13:08:36	47.10	46.80	46.10		47.10	45.80	5.13E+04	3.80E+04
4/11/2018 13:09:36	47.60	46.80	46.00		47.60	45.70	5.75E+04	3.72E+04
4/11/2018 13:10:36	46.90	46.80	46.00		46.90	45.70	4.90E+04	3.72E+04
4/11/2018 13:11:36	47.60	47.10	46.20		47.60	46.00	5.75E+04	3.98E+04
4/11/2018 13:12:36	48.80	48.30	46.60		48.80	46.10	7.59E+04	4.07E+04
4/11/2018 13:13:36	53.40	49.80	46.40		53.40	45.80	2.19E+05	3.80E+04
4/11/2018 13:14:36	50.60	49.90	46.50		50.60	46.10	1.15E+05	4.07E+04
4/11/2018 13:15:36	53.40	50.40	46.70		53.40	46.20	2.19E+05	4.17E+04
4/11/2018 13:16:36	51.10	49.00	46.70		51.10	46.20	1.29E+05	4.17E+04
4/11/2018 13:17:36	51.80	50.50	47.30		51.80	46.80	1.51E+05	4.79E+04
4/11/2018 13:18:36	51.80	50.10	47.60		51.80	47.00	1.51E+05	5.01E+04
4/11/2018 13:19:36	52.60	50.70	47.30		52.60	46.50	1.82E+05	4.47E+04
4/11/2018 13:20:36	51.40	50.30	47.40		51.40	46.60	1.38E+05	4.57E+04
4/11/2018 13:21:36	50.00	48.80	47.10		50.00	46.30	1.00E+05	4.27E+04
4/11/2018 13:22:36	49.50	49.30	47.10		49.50	46.40	8.91E+04	4.37E+04
4/11/2018 13:23:36	48.70	48.40	46.70		48.70	46.40	7.41E+04	4.37E+04
4/11/2018 13:24:36	48.90	48.00	46.60		48.90	46.20	7.76E+04	4.17E+04
4/11/2018 13:25:36	49.80	48.60	46.40		49.80	46.10	9.55E+04	4.07E+04
4/11/2018 13:26:36	50.30	49.20	47.20		50.30	46.80	1.07E+05	4.79E+04
4/11/2018 13:27:36	48.60	48.40	46.70		48.60	45.90	7.24E+04	3.89E+04
4/11/2018 13:28:36	48.60	47.90	46.40		48.60	45.90	7.24E+04	3.89E+04
4/11/2018 13:29:36	48.80	48.60	47.20		48.80	46.80	7.59E+04	4.79E+04
4/11/2018 13:30:36	52.80	50.40	47.80		52.80	47.20	1.91E+05	5.25E+04
4/11/2018 13:31:36	51.80	49.90	48.30		51.80	47.80	1.51E+05	6.03E+04

Location 2 End

Location 5 Start

4/11/2018 13:32:36	49.10	48.60	47.20		49.10	46.80	8.13E+04	4.79E+04
4/11/2018 13:33:36	55.00	50.50	47.20		55.00	45.90	3.16E+05	3.89E+04
4/11/2018 13:34:36	54.50	50.70	47.90		54.50	47.10	2.82E+05	5.13E+04
4/11/2018 13:35:36	50.80	49.40	47.50		50.80	46.80	1.20E+05	4.79E+04
4/11/2018 13:36:36	50.30	49.40	47.30		50.30	47.00	1.07E+05	5.01E+04
4/11/2018 13:37:36	57.20	56.40	50.70		57.20	47.80	5.25E+05	6.03E+04
4/11/2018 13:38:36	61.80	59.80	49.90		61.80	48.10	1.51E+06	6.46E+04
4/11/2018 13:39:36	59.00	58.10	51.70		59.00	50.60	7.94E+05	1.15E+05
4/11/2018 13:40:36	56.00	54.10	46.00		56.00	45.70	3.98E+05	3.72E+04
4/11/2018 13:41:36	52.40	52.00	46.80		52.40	46.10	1.74E+05	4.07E+04
4/11/2018 13:42:36	49.90	49.50	47.20		49.90	46.00	9.77E+04	3.98E+04
4/11/2018 13:43:36	52.20	50.50	47.10		52.20	46.30	1.66E+05	4.27E+04
4/11/2018 13:44:36	50.70	49.90	46.80		50.70	46.50	1.17E+05	4.47E+04
4/11/2018 13:45:36	49.20	48.80	47.00		49.20	46.40	8.32E+04	4.37E+04
4/11/2018 13:46:36	47.80	47.50	46.00		47.80	45.70	6.03E+04	3.72E+04
4/11/2018 13:47:36	48.40	47.60	45.50		48.40	45.20	6.92E+04	3.31E+04
4/11/2018 13:48:36	48.50	47.20	45.70		48.50	45.30	7.08E+04	3.39E+04
4/11/2018 13:49:36	64.00	53.50	46.30		64.00	45.90	2.51E+06	3.89E+04
4/11/2018 13:50:36	54.60	51.10	45.00		54.60	43.70	2.88E+05	2.34E+04
4/11/2018 13:51:36	59.70	55.10	48.90		59.70	47.90	9.33E+05	6.17E+04
4/11/2018 13:52:36	54.80	51.00	49.30		54.80	48.80	3.02E+05	7.59E+04

Location 5 End

Location 4 & 3						CountA:		Location 4		CountA:		Location 3	
						58		5.06E+07	3.50E+06	205		4.37E+07	4.24E+06
Timestamp	Lmax-1	L10-1	L90-1	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min			Leq Max	Leq Min
4/10/2018 12:22:08	69.40	63.10	50.60	69.40	48.60	8.71E+06	7.24E+04	59.41	47.81			53.29	43.15
4/10/2018 12:23:08	69.30	56.60	49.50	69.30	49.30	8.51E+06	8.51E+04						
4/10/2018 12:24:08	50.50	50.00	49.60	50.50	49.30	1.12E+05	8.51E+04						
4/10/2018 12:25:08	59.00	53.60	49.80	59.00	49.60	7.94E+05	9.12E+04						
4/10/2018 12:26:08	56.60	53.00	50.30	56.60	49.90	4.57E+05	9.77E+04						
4/10/2018 12:27:08	65.10	61.00	49.80	65.10	49.40	3.24E+06	8.71E+04						
4/10/2018 12:28:08	53.40	51.00	49.50	53.40	49.20	2.19E+05	8.32E+04						
4/10/2018 12:29:08	67.00	55.80	49.40	67.00	49.10	5.01E+06	8.13E+04						
4/10/2018 12:30:08	51.70	50.10	48.80	51.70	48.50	1.48E+05	7.08E+04						
4/10/2018 12:31:08	70.00	56.70	48.70	70.00	48.20	1.00E+07	6.61E+04						
4/10/2018 12:32:08	53.40	50.70	48.10	53.40	47.80	2.19E+05	6.03E+04						
4/10/2018 12:33:08	56.50	53.10	48.20	56.50	47.90	4.47E+05	6.17E+04						
4/10/2018 12:34:08	56.30	53.90	48.30	56.30	48.00	4.27E+05	6.31E+04						
4/10/2018 12:35:08	61.80	55.20	47.80	61.80	47.60	1.51E+06	5.75E+04						
4/10/2018 12:36:08	48.20	48.20	47.80	48.20	47.60	6.61E+04	5.75E+04						
4/10/2018 12:37:08	47.70	47.70	47.60	47.70	47.40	5.89E+04	5.50E+04						
4/10/2018 12:38:08	47.70	47.80	47.60	47.70	47.40	5.89E+04	5.50E+04						
4/10/2018 12:39:08	48.10	48.00	47.60	48.10	47.50	6.46E+04	5.62E+04						
4/10/2018 12:40:08	47.80	47.80	47.70	47.80	47.50	6.03E+04	5.62E+04						
4/10/2018 12:41:08	48.10	48.00	47.70	48.10	47.40	6.46E+04	5.50E+04						
4/10/2018 12:42:08	49.50	49.00	48.00	49.50	47.80	8.91E+04	6.03E+04						
4/10/2018 12:43:08	47.90	47.90	47.60	47.90	47.50	6.17E+04	5.62E+04						
4/10/2018 12:44:08	48.20	48.10	47.70	48.20	47.50	6.61E+04	5.62E+04						
4/10/2018 12:45:08	48.40	48.30	47.90	48.40	47.70	6.92E+04	5.89E+04						
4/10/2018 12:46:08	48.40	48.30	47.80	48.40	47.60	6.92E+04	5.75E+04						
4/10/2018 12:47:08	48.70	48.50	48.10	48.70	47.80	7.41E+04	6.03E+04						
4/10/2018 12:48:08	48.70	48.40	47.80	48.70	47.60	7.41E+04	5.75E+04						
4/10/2018 12:49:08	47.90	47.90	47.70	47.90	47.50	6.17E+04	5.62E+04						
4/10/2018 12:50:08	47.90	48.00	47.70	47.90	47.60	6.17E+04	5.75E+04						
4/10/2018 12:51:08	48.00	47.90	47.60	48.00	47.40	6.31E+04	5.50E+04						
4/10/2018 12:52:08	48.00	48.00	47.70	48.00	47.40	6.31E+04	5.50E+04						
4/10/2018 12:53:08	47.70	47.70	47.60	47.70	47.40	5.89E+04	5.50E+04						
4/10/2018 12:54:08	47.80	47.90	47.60	47.80	47.40	6.03E+04	5.50E+04						
4/10/2018 12:55:08	47.80	47.80	47.60	47.80	47.40	6.03E+04	5.50E+04						
4/10/2018 12:56:08	48.20	48.00	47.80	48.20	47.60	6.61E+04	5.75E+04						
4/10/2018 12:57:08	49.30	49.00	48.00	49.30	47.70	8.51E+04	5.89E+04						
4/10/2018 12:58:08	48.70	48.20	47.50	48.70	47.20	7.41E+04	5.25E+04						
4/10/2018 12:59:08	47.70	47.60	47.20	47.70	47.00	5.89E+04	5.01E+04						
4/10/2018 13:00:08	47.50	47.50	47.20	47.50	47.00	5.62E+04	5.01E+04						
4/10/2018 13:01:08	47.90	47.80	47.40	47.90	47.20	6.17E+04	5.25E+04						
4/10/2018 13:02:08	56.70	52.60	47.60	56.70	47.40	4.68E+05	5.50E+04						
4/10/2018 13:03:08	63.70	58.60	51.20	63.70	48.70	2.34E+06	7.41E+04						
4/10/2018 13:04:08	50.90	48.10	47.40	50.90	47.20	1.23E+05	5.25E+04						
4/10/2018 13:05:08	49.00	48.50	47.50	49.00	47.30	7.94E+04	5.37E+04						
4/10/2018 13:06:08	48.90	48.20	47.40	48.90	47.10	7.76E+04	5.13E+04						
4/10/2018 13:07:08	47.60	47.40	47.10	47.60	46.90	5.75E+04	4.90E+04						
4/10/2018 13:08:08	47.30	47.30	47.10	47.30	46.90	5.37E+04	4.90E+04						
4/10/2018 13:09:08	47.70	47.40	47.10	47.70	47.00	5.89E+04	5.01E+04						
4/10/2018 13:10:08	47.80	47.70	47.30	47.80	47.10	6.03E+04	5.13E+04						

4/10/2018 13:11:08	48.10	47.80	47.50	48.10	47.20	6.46E+04	5.25E+04
4/10/2018 13:12:08	47.90	47.70	47.40	47.90	47.10	6.17E+04	5.13E+04
4/10/2018 13:13:08	48.40	48.00	47.50	48.40	47.30	6.92E+04	5.37E+04
4/10/2018 13:14:08	49.00	48.90	48.00	49.00	47.70	7.94E+04	5.89E+04
4/10/2018 13:15:08	49.40	49.00	47.80	49.40	47.70	8.71E+04	5.89E+04
4/10/2018 13:16:08	48.40	47.90	47.70	48.40	47.60	6.92E+04	5.75E+04
4/10/2018 13:17:08	50.10	48.80	47.60	50.10	47.40	1.02E+05	5.50E+04
4/10/2018 13:18:08	50.70	49.50	47.90	50.70	47.70	1.17E+05	5.89E+04
4/10/2018 13:19:08	67.10	58.00	47.90	67.10	47.60	5.13E+06	5.75E+04
4/10/2018 13:28:30	71.00	60.70	45.60	71.00	44.30	1.26E+07	2.69E+04
4/10/2018 13:29:30	72.40	68.40	49.10	72.40	48.10	1.74E+07	6.46E+04
4/10/2018 13:30:30	65.90	63.50	51.10	65.90	49.70	3.89E+06	9.33E+04
4/10/2018 13:31:30	62.80	57.20	46.70	62.80	46.00	1.91E+06	3.98E+04
4/10/2018 13:32:30	49.20	47.80	46.00	49.20	45.60	8.32E+04	3.63E+04
4/10/2018 13:33:30	46.20	46.10	45.40	46.20	45.00	4.17E+04	3.16E+04
4/10/2018 13:34:30	52.20	49.50	45.90	52.20	45.60	1.66E+05	3.63E+04
4/10/2018 13:35:30	50.70	49.40	45.90	50.70	45.50	1.17E+05	3.55E+04
4/10/2018 13:36:30	46.60	46.00	45.00	46.60	44.50	4.57E+04	2.82E+04
4/10/2018 13:37:30	45.60	45.40	44.90	45.60	44.60	3.63E+04	2.88E+04
4/10/2018 13:38:30	45.30	45.10	44.40	45.30	44.10	3.39E+04	2.57E+04
4/10/2018 13:39:30	45.60	45.60	44.80	45.60	44.40	3.63E+04	2.75E+04
4/10/2018 13:40:30	51.20	46.60	45.20	51.20	44.90	1.32E+05	3.09E+04
4/10/2018 13:41:30	48.10	46.50	45.80	48.10	45.40	6.46E+04	3.47E+04
4/10/2018 13:42:30	47.20	46.00	45.60	47.20	45.30	5.25E+04	3.39E+04
4/10/2018 13:43:30	46.30	45.90	45.40	46.30	45.10	4.27E+04	3.24E+04
4/10/2018 13:44:30	47.00	46.30	45.60	47.00	45.20	5.01E+04	3.31E+04
4/10/2018 13:45:30	46.90	46.50	45.50	46.90	45.20	4.90E+04	3.31E+04
4/10/2018 13:46:30	47.00	46.50	45.70	47.00	45.40	5.01E+04	3.47E+04
4/10/2018 13:47:30	47.60	46.40	45.50	47.60	45.20	5.75E+04	3.31E+04
4/10/2018 13:48:30	47.80	46.90	45.80	47.80	45.60	6.03E+04	3.63E+04
4/10/2018 13:49:30	47.90	47.30	45.60	47.90	45.00	6.17E+04	3.16E+04
4/10/2018 13:50:30	46.10	45.70	45.10	46.10	44.80	4.07E+04	3.02E+04
4/10/2018 13:51:30	45.20	45.20	44.70	45.20	44.30	3.31E+04	2.69E+04
4/10/2018 13:52:30	46.20	45.40	44.40	46.20	44.20	4.17E+04	2.63E+04
4/10/2018 13:53:30	47.20	45.80	44.90	47.20	44.60	5.25E+04	2.88E+04
4/10/2018 13:54:30	45.90	45.30	44.80	45.90	44.40	3.89E+04	2.75E+04
4/10/2018 13:55:30	47.10	45.50	44.70	47.10	44.50	5.13E+04	2.82E+04
4/10/2018 13:56:30	45.60	45.20	44.60	45.60	44.20	3.63E+04	2.63E+04
4/10/2018 13:57:30	46.20	45.60	44.30	46.20	44.00	4.17E+04	2.51E+04
4/10/2018 13:58:30	49.40	44.90	44.10	49.40	43.90	8.71E+04	2.45E+04
4/10/2018 13:59:30	44.70	44.40	43.50	44.70	43.20	2.95E+04	2.09E+04
4/10/2018 14:00:30	44.40	43.90	43.30	44.40	42.90	2.75E+04	1.95E+04
4/10/2018 14:01:30	48.90	45.30	43.60	48.90	43.10	7.76E+04	2.04E+04
4/10/2018 14:02:30	46.30	45.10	43.50	46.30	43.20	4.27E+04	2.09E+04
4/10/2018 14:03:30	44.10	43.80	43.10	44.10	42.90	2.57E+04	1.95E+04
4/10/2018 14:04:30	43.70	43.50	43.00	43.70	42.80	2.34E+04	1.91E+04
4/10/2018 14:05:30	44.70	43.80	43.10	44.70	42.90	2.95E+04	1.95E+04
4/10/2018 14:06:30	43.60	43.40	43.00	43.60	42.70	2.29E+04	1.86E+04
4/10/2018 14:07:30	44.10	43.70	43.00	44.10	42.80	2.57E+04	1.91E+04
4/10/2018 14:08:30	45.10	44.00	43.30	45.10	42.70	3.24E+04	1.86E+04
4/10/2018 14:09:30	44.60	43.50	43.10	44.60	42.90	2.88E+04	1.95E+04
4/10/2018 14:10:30	44.70	43.80	43.00	44.70	42.70	2.95E+04	1.86E+04

Location 4 End
Location 3 Start

4/10/2018 14:11:30	46.70	46.20	43.60	46.70	43.20	4.68E+04	2.09E+04
4/10/2018 14:12:30	43.80	43.40	43.00	43.80	42.70	2.40E+04	1.86E+04
4/10/2018 14:13:30	44.10	43.60	43.10	44.10	42.90	2.57E+04	1.95E+04
4/10/2018 14:14:30	55.70	50.10	43.00	55.70	42.60	3.72E+05	1.82E+04
4/10/2018 14:15:30	48.10	45.70	43.10	48.10	42.80	6.46E+04	1.91E+04
4/10/2018 14:16:30	45.90	43.90	42.80	45.90	42.60	3.89E+04	1.82E+04
4/10/2018 14:17:30	43.40	43.00	42.70	43.40	42.40	2.19E+04	1.74E+04
4/10/2018 14:18:30	42.90	42.90	42.70	42.90	42.40	1.95E+04	1.74E+04
4/10/2018 14:19:30	46.30	44.60	42.80	46.30	42.60	4.27E+04	1.82E+04
4/10/2018 14:20:30	44.50	43.70	42.90	44.50	42.60	2.82E+04	1.82E+04
4/10/2018 14:21:30	43.30	43.20	42.50	43.30	42.20	2.14E+04	1.66E+04
4/10/2018 14:22:30	43.90	43.10	42.40	43.90	42.10	2.45E+04	1.62E+04
4/10/2018 14:23:30	45.50	44.70	42.80	45.50	42.40	3.55E+04	1.74E+04
4/10/2018 14:24:30	45.00	44.50	43.10	45.00	42.80	3.16E+04	1.91E+04
4/10/2018 14:25:30	44.00	43.40	42.80	44.00	42.50	2.51E+04	1.78E+04
4/10/2018 14:26:30	43.50	43.30	42.90	43.50	42.60	2.24E+04	1.82E+04
4/10/2018 14:27:30	43.50	43.30	42.80	43.50	42.40	2.24E+04	1.74E+04
4/10/2018 14:28:30	43.90	43.60	42.80	43.90	42.60	2.45E+04	1.82E+04
4/10/2018 14:29:30	46.60	44.10	42.90	46.60	42.60	4.57E+04	1.82E+04
4/10/2018 14:30:30	45.90	45.70	44.00	45.90	43.50	3.89E+04	2.24E+04
4/10/2018 14:31:30	45.20	44.70	43.70	45.20	43.50	3.31E+04	2.24E+04
4/10/2018 14:32:30	44.50	43.90	43.30	44.50	43.10	2.82E+04	2.04E+04
4/10/2018 14:33:30	44.10	43.90	43.10	44.10	42.80	2.57E+04	1.91E+04
4/10/2018 14:34:30	43.50	43.50	43.00	43.50	42.70	2.24E+04	1.86E+04
4/10/2018 14:35:30	43.20	43.10	42.30	43.20	42.10	2.09E+04	1.62E+04
4/10/2018 14:36:30	42.90	42.80	42.20	42.90	41.90	1.95E+04	1.55E+04
4/10/2018 14:37:30	43.20	43.10	42.80	43.20	42.60	2.09E+04	1.82E+04
4/10/2018 14:38:30	50.70	46.90	42.80	50.70	42.60	1.17E+05	1.82E+04
4/10/2018 14:39:30	49.60	46.30	43.30	49.60	42.90	9.12E+04	1.95E+04
4/10/2018 14:40:30	43.90	43.40	42.70	43.90	42.50	2.45E+04	1.78E+04
4/10/2018 14:41:30	43.60	43.40	42.70	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 14:42:30	46.20	44.40	43.10	46.20	42.90	4.17E+04	1.95E+04
4/10/2018 14:43:30	47.50	46.50	43.60	47.50	43.20	5.62E+04	2.09E+04
4/10/2018 14:44:30	44.30	43.50	42.80	44.30	42.50	2.69E+04	1.78E+04
4/10/2018 14:45:30	44.60	43.80	42.80	44.60	42.40	2.88E+04	1.74E+04
4/10/2018 14:46:30	43.60	43.10	42.30	43.60	42.00	2.29E+04	1.58E+04
4/10/2018 14:47:30	43.70	43.10	42.70	43.70	42.40	2.34E+04	1.74E+04
4/10/2018 14:48:30	44.50	43.00	42.30	44.50	42.00	2.82E+04	1.58E+04
4/10/2018 14:49:30	44.10	43.70	42.30	44.10	42.10	2.57E+04	1.62E+04
4/10/2018 14:50:30	45.60	43.80	42.90	45.60	42.60	3.63E+04	1.82E+04
4/10/2018 14:51:30	43.30	43.20	42.70	43.30	42.40	2.14E+04	1.74E+04
4/10/2018 14:52:30	43.20	42.80	42.30	43.20	42.00	2.09E+04	1.58E+04
4/10/2018 14:53:30	49.80	47.50	42.40	49.80	41.90	9.55E+04	1.55E+04
4/10/2018 14:54:30	48.80	47.70	44.70	48.80	43.90	7.59E+04	2.45E+04
4/10/2018 14:55:30	47.50	45.80	43.40	47.50	43.00	5.62E+04	2.00E+04
4/10/2018 14:56:30	46.00	44.80	43.10	46.00	42.90	3.98E+04	1.95E+04
4/10/2018 14:57:30	43.50	43.20	42.60	43.50	42.30	2.24E+04	1.70E+04
4/10/2018 14:58:30	43.60	43.30	42.70	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 14:59:30	44.90	44.40	43.00	44.90	42.50	3.09E+04	1.78E+04
4/10/2018 15:00:30	45.30	43.90	42.40	45.30	42.10	3.39E+04	1.62E+04
4/10/2018 15:01:30	44.50	42.90	42.30	44.50	42.00	2.82E+04	1.58E+04
4/10/2018 15:02:30	44.40	43.60	42.50	44.40	42.30	2.75E+04	1.70E+04

4/10/2018 15:03:30	46.50	45.50	43.10	46.50	42.80	4.47E+04	1.91E+04
4/10/2018 15:04:30	46.20	44.60	43.30	46.20	42.50	4.17E+04	1.78E+04
4/10/2018 15:05:30	45.30	43.00	42.40	45.30	42.10	3.39E+04	1.62E+04
4/10/2018 15:06:30	43.70	42.80	42.30	43.70	42.10	2.34E+04	1.62E+04
4/10/2018 15:07:30	44.40	43.80	42.70	44.40	42.40	2.75E+04	1.74E+04
4/10/2018 15:08:30	45.80	44.20	42.90	45.80	42.60	3.80E+04	1.82E+04
4/10/2018 15:09:30	44.20	43.60	42.70	44.20	42.40	2.63E+04	1.74E+04
4/10/2018 15:10:30	43.80	43.30	42.50	43.80	42.20	2.40E+04	1.66E+04
4/10/2018 15:11:30	43.40	42.80	42.30	43.40	42.00	2.19E+04	1.58E+04
4/10/2018 15:12:30	43.50	43.30	42.30	43.50	42.00	2.24E+04	1.58E+04
4/10/2018 15:13:30	42.90	42.60	42.20	42.90	41.90	1.95E+04	1.55E+04
4/10/2018 15:14:30	43.20	43.10	42.50	43.20	42.30	2.09E+04	1.70E+04
4/10/2018 15:15:30	45.70	44.60	43.00	45.70	42.70	3.72E+04	1.86E+04
4/10/2018 15:16:30	45.30	43.70	42.60	45.30	42.30	3.39E+04	1.70E+04
4/10/2018 15:17:30	43.80	43.10	42.60	43.80	42.20	2.40E+04	1.66E+04
4/10/2018 15:18:30	47.30	45.20	42.80	47.30	42.50	5.37E+04	1.78E+04
4/10/2018 15:19:30	45.40	44.70	43.50	45.40	43.00	3.47E+04	2.00E+04
4/10/2018 15:20:30	44.00	43.20	42.70	44.00	42.40	2.51E+04	1.74E+04
4/10/2018 15:21:30	45.00	44.50	42.90	45.00	42.60	3.16E+04	1.82E+04
4/10/2018 15:22:30	44.90	44.60	42.80	44.90	42.40	3.09E+04	1.74E+04
4/10/2018 15:23:30	43.00	42.80	42.50	43.00	42.30	2.00E+04	1.70E+04
4/10/2018 15:24:30	43.40	43.30	42.70	43.40	42.20	2.19E+04	1.66E+04
4/10/2018 15:25:30	44.60	44.10	42.80	44.60	42.20	2.88E+04	1.66E+04
4/10/2018 15:26:30	44.50	44.40	43.10	44.50	42.70	2.82E+04	1.86E+04
4/10/2018 15:27:30	44.50	43.80	42.80	44.50	42.30	2.82E+04	1.70E+04
4/10/2018 15:28:30	44.00	43.60	42.60	44.00	42.40	2.51E+04	1.74E+04
4/10/2018 15:29:30	43.20	42.90	42.20	43.20	41.90	2.09E+04	1.55E+04
4/10/2018 15:30:30	45.00	44.70	42.50	45.00	42.10	3.16E+04	1.62E+04
4/10/2018 15:31:30	43.40	43.20	42.40	43.40	42.10	2.19E+04	1.62E+04
4/10/2018 15:32:30	43.50	43.30	42.30	43.50	42.00	2.24E+04	1.58E+04
4/10/2018 15:33:30	43.20	42.70	42.00	43.20	41.70	2.09E+04	1.48E+04
4/10/2018 15:34:30	42.80	42.50	42.00	42.80	41.80	1.91E+04	1.51E+04
4/10/2018 15:35:30	43.40	42.80	42.10	43.40	41.90	2.19E+04	1.55E+04
4/10/2018 15:36:30	43.90	43.00	42.40	43.90	42.10	2.45E+04	1.62E+04
4/10/2018 15:37:30	46.90	44.80	42.20	46.90	41.80	4.90E+04	1.51E+04
4/10/2018 15:38:30	52.10	49.60	43.50	52.10	42.90	1.62E+05	1.95E+04
4/10/2018 15:39:30	47.20	45.70	43.00	47.20	42.40	5.25E+04	1.74E+04
4/10/2018 15:40:30	46.90	45.40	42.50	46.90	42.30	4.90E+04	1.70E+04
4/10/2018 15:41:30	49.20	47.50	43.40	49.20	43.00	8.32E+04	2.00E+04
4/10/2018 15:42:30	43.70	43.40	42.90	43.70	42.60	2.34E+04	1.82E+04
4/10/2018 15:43:30	43.30	42.90	42.60	43.30	42.40	2.14E+04	1.74E+04
4/10/2018 15:44:30	44.00	43.80	42.90	44.00	42.70	2.51E+04	1.86E+04
4/10/2018 15:45:30	44.90	44.10	42.40	44.90	42.20	3.09E+04	1.66E+04
4/10/2018 15:46:30	45.10	44.60	42.70	45.10	42.20	3.24E+04	1.66E+04
4/10/2018 15:47:30	45.50	45.10	42.80	45.50	42.50	3.55E+04	1.78E+04
4/10/2018 15:48:30	43.90	43.50	42.70	43.90	42.40	2.45E+04	1.74E+04
4/10/2018 15:49:30	43.80	43.40	42.60	43.80	42.40	2.40E+04	1.74E+04
4/10/2018 15:50:30	45.80	44.70	42.80	45.80	42.40	3.80E+04	1.74E+04
4/10/2018 15:51:30	45.00	44.40	43.10	45.00	42.70	3.16E+04	1.86E+04
4/10/2018 15:52:30	43.60	43.40	42.80	43.60	42.50	2.29E+04	1.78E+04
4/10/2018 15:53:30	43.00	43.00	42.50	43.00	42.30	2.00E+04	1.70E+04
4/10/2018 15:54:30	43.40	43.20	42.50	43.40	42.20	2.19E+04	1.66E+04

4/10/2018 15:55:30	46.30	45.40	43.50	46.30	43.20	4.27E+04	2.09E+04
4/10/2018 15:56:30	45.70	43.70	42.50	45.70	42.10	3.72E+04	1.62E+04
4/10/2018 15:57:30	44.20	43.00	42.40	44.20	42.10	2.63E+04	1.62E+04
4/10/2018 15:58:30	43.00	42.90	42.30	43.00	42.00	2.00E+04	1.58E+04
4/10/2018 15:59:30	43.50	43.30	42.80	43.50	42.40	2.24E+04	1.74E+04
4/10/2018 16:00:30	43.50	43.30	42.50	43.50	42.10	2.24E+04	1.62E+04
4/10/2018 16:01:30	48.60	47.10	42.80	48.60	42.50	7.24E+04	1.78E+04
4/10/2018 16:02:30	47.30	46.20	43.60	47.30	43.20	5.37E+04	2.09E+04
4/10/2018 16:03:30	44.00	43.80	43.00	44.00	42.70	2.51E+04	1.86E+04
4/10/2018 16:04:30	44.90	44.30	43.20	44.90	42.90	3.09E+04	1.95E+04
4/10/2018 16:05:30	44.60	44.20	43.00	44.60	42.70	2.88E+04	1.86E+04
4/10/2018 16:06:30	44.20	44.00	43.00	44.20	42.60	2.63E+04	1.82E+04
4/10/2018 16:07:30	45.10	44.10	42.80	45.10	42.50	3.24E+04	1.78E+04
4/10/2018 16:08:30	44.30	43.70	42.70	44.30	42.50	2.69E+04	1.78E+04
4/10/2018 16:09:30	44.80	44.30	42.90	44.80	42.70	3.02E+04	1.86E+04
4/10/2018 16:10:30	45.30	44.40	43.10	45.30	42.70	3.39E+04	1.86E+04
4/10/2018 16:11:30	44.80	44.70	43.60	44.80	43.40	3.02E+04	2.19E+04
4/10/2018 16:12:30	44.90	44.20	43.60	44.90	43.30	3.09E+04	2.14E+04
4/10/2018 16:13:30	45.20	44.60	43.50	45.20	43.10	3.31E+04	2.04E+04
4/10/2018 16:14:30	44.20	44.00	42.80	44.20	42.60	2.63E+04	1.82E+04
4/10/2018 16:15:30	44.60	44.00	42.90	44.60	42.70	2.88E+04	1.86E+04
4/10/2018 16:16:30	44.80	44.50	42.90	44.80	42.70	3.02E+04	1.86E+04
4/10/2018 16:17:30	44.70	44.20	42.90	44.70	42.70	2.95E+04	1.86E+04
4/10/2018 16:18:30	45.10	44.70	43.40	45.10	43.00	3.24E+04	2.00E+04
4/10/2018 16:19:30	46.10	45.60	43.80	46.10	43.40	4.07E+04	2.19E+04
4/10/2018 16:20:30	45.70	45.50	43.90	45.70	43.60	3.72E+04	2.29E+04
4/10/2018 16:21:30	45.70	45.60	43.90	45.70	43.60	3.72E+04	2.29E+04
4/10/2018 16:22:30	50.00	45.30	43.80	50.00	43.30	1.00E+05	2.14E+04
4/10/2018 16:23:30	44.80	44.50	43.60	44.80	43.10	3.02E+04	2.04E+04
4/10/2018 16:24:30	46.00	45.40	43.90	46.00	43.30	3.98E+04	2.14E+04
4/10/2018 16:25:30	44.90	44.30	43.20	44.90	42.90	3.09E+04	1.95E+04
4/10/2018 16:26:30	46.10	44.90	43.40	46.10	42.90	4.07E+04	1.95E+04
4/10/2018 16:27:30	44.60	44.50	43.40	44.60	43.10	2.88E+04	2.04E+04
4/10/2018 16:28:30	44.80	44.30	43.10	44.80	42.60	3.02E+04	1.82E+04
4/10/2018 16:29:30	44.70	44.40	43.10	44.70	42.70	2.95E+04	1.86E+04
4/10/2018 16:30:30	44.70	44.60	43.50	44.70	43.20	2.95E+04	2.09E+04
4/10/2018 16:31:30	44.80	44.50	43.00	44.80	42.80	3.02E+04	1.91E+04
4/10/2018 16:32:30	46.00	44.70	43.10	46.00	42.80	3.98E+04	1.91E+04
4/10/2018 16:33:30	46.00	45.80	43.80	46.00	43.50	3.98E+04	2.24E+04
4/10/2018 16:34:30	47.10	46.70	43.60	47.10	43.40	5.13E+04	2.19E+04
4/10/2018 16:35:30	45.10	44.90	43.50	45.10	43.20	3.24E+04	2.09E+04
4/10/2018 16:36:30	44.70	44.40	43.00	44.70	42.70	2.95E+04	1.86E+04
4/10/2018 16:37:30	44.40	44.30	42.90	44.40	42.60	2.75E+04	1.82E+04
4/10/2018 16:38:30	49.00	44.80	43.10	49.00	42.70	7.94E+04	1.86E+04
4/10/2018 16:39:30	44.70	44.40	42.80	44.70	42.30	2.95E+04	1.70E+04
4/10/2018 16:40:30	44.10	43.90	42.60	44.10	42.30	2.57E+04	1.70E+04
4/10/2018 16:41:30	44.40	44.20	42.60	44.40	42.30	2.75E+04	1.70E+04
4/10/2018 16:42:30	44.60	44.40	42.90	44.60	42.60	2.88E+04	1.82E+04
4/10/2018 16:43:30	45.30	45.10	43.40	45.30	42.90	3.39E+04	1.95E+04
4/10/2018 16:44:30	48.90	46.20	43.70	48.90	43.20	7.76E+04	2.09E+04
4/10/2018 16:45:30	44.70	44.40	42.90	44.70	42.50	2.95E+04	1.78E+04
4/10/2018 16:46:30	44.30	43.70	42.70	44.30	42.30	2.69E+04	1.70E+04

4/10/2018 16:47:30	47.30	44.40	42.90	47.30	42.50	5.37E+04	1.78E+04
4/10/2018 16:48:30	45.10	44.80	43.60	45.10	43.40	3.24E+04	2.19E+04
4/10/2018 16:49:30	45.50	45.00	43.30	45.50	42.90	3.55E+04	1.95E+04
4/10/2018 16:50:30	44.20	43.90	42.80	44.20	42.50	2.63E+04	1.78E+04
4/10/2018 16:51:30	44.90	44.50	42.80	44.90	42.50	3.09E+04	1.78E+04
4/10/2018 16:52:30	45.30	45.00	44.00	45.30	43.70	3.39E+04	2.34E+04

Location 3 End

Location 6		
Timestamp	Lmax-1	CountA: Ten Lmax/10
4/9/2018 11:01:06	71.20	1.32E+07
4/9/2018 11:02:06	69.80	9.55E+06
4/9/2018 11:03:06	71.30	1.35E+07
4/9/2018 11:04:06	66.30	4.27E+06
4/9/2018 11:05:06	65.40	3.47E+06
4/9/2018 11:06:06	75.60	3.63E+07
4/9/2018 11:07:06	70.10	1.02E+07
4/9/2018 11:08:06	65.40	3.47E+06
4/9/2018 11:09:06	66.10	4.07E+06
4/9/2018 11:10:06	64.90	3.09E+06
4/9/2018 11:11:06	67.60	5.75E+06
4/9/2018 11:12:06	70.30	1.07E+07
4/9/2018 11:13:06	67.00	5.01E+06
4/9/2018 11:14:06	75.40	3.47E+07
4/9/2018 11:15:06	74.60	2.88E+07
4/9/2018 11:16:06	69.60	9.12E+06
4/9/2018 11:17:06	67.80	6.03E+06
4/9/2018 11:18:06	64.70	2.95E+06
4/9/2018 11:19:06	65.30	3.39E+06
4/9/2018 11:20:06	65.40	3.47E+06
4/9/2018 11:21:06	70.60	1.15E+07
4/9/2018 11:22:06	60.00	1.00E+06
4/9/2018 11:23:06	68.20	6.61E+06
4/9/2018 11:24:06	66.10	4.07E+06
4/9/2018 11:25:06	70.00	1.00E+07
4/9/2018 11:26:06	69.60	9.12E+06
4/9/2018 11:27:06	69.40	8.71E+06
4/9/2018 11:28:06	68.10	6.46E+06
4/9/2018 11:29:06	66.50	4.47E+06
4/9/2018 11:30:06	66.10	4.07E+06
4/9/2018 11:31:06	65.80	3.80E+06
4/9/2018 11:32:06	68.30	6.76E+06
4/9/2018 11:33:06	68.90	7.76E+06
4/9/2018 11:34:06	64.70	2.95E+06
4/9/2018 11:35:06	75.60	3.63E+07
4/9/2018 11:36:06	68.20	6.61E+06
4/9/2018 11:37:06	72.40	1.74E+07
4/9/2018 11:38:06	75.50	3.55E+07
4/9/2018 11:39:06	71.30	1.35E+07
4/9/2018 11:40:06	69.90	9.77E+06
4/9/2018 11:41:06	69.50	8.91E+06
4/9/2018 11:42:06	65.10	3.24E+06
4/9/2018 11:43:06	61.70	1.48E+06
4/9/2018 11:44:06	71.40	1.38E+07
4/9/2018 11:45:06	71.80	1.51E+07
4/9/2018 11:46:06	63.30	2.14E+06
4/9/2018 11:47:06	63.40	2.19E+06
4/9/2018 11:48:06	66.20	4.17E+06
4/9/2018 11:49:06	50.70	1.17E+05

93 6.57E+08

Leq Max
68.49

4/9/2018 11:50:06	49.90	9.77E+04
4/9/2018 11:51:06	63.20	2.09E+06
4/9/2018 11:52:06	63.90	2.45E+06
4/9/2018 11:53:06	63.60	2.29E+06
4/9/2018 11:54:06	64.40	2.75E+06
4/9/2018 11:55:06	63.00	2.00E+06
4/9/2018 11:56:06	50.00	1.00E+05
4/9/2018 11:57:06	62.90	1.95E+06
4/9/2018 11:58:06	49.40	8.71E+04
4/9/2018 11:59:06	66.20	4.17E+06
4/9/2018 12:00:06	66.90	4.90E+06
4/9/2018 12:01:06	63.50	2.24E+06
4/9/2018 12:02:06	68.30	6.76E+06
4/9/2018 12:03:06	65.80	3.80E+06
4/9/2018 12:04:06	49.60	9.12E+04
4/9/2018 12:05:06	51.40	1.38E+05
4/9/2018 12:06:06	65.40	3.47E+06
4/9/2018 12:07:06	50.00	1.00E+05
4/9/2018 12:08:06	61.50	1.41E+06
4/9/2018 12:09:06	65.60	3.63E+06
4/9/2018 12:10:06	63.60	2.29E+06
4/9/2018 12:11:06	62.30	1.70E+06
4/9/2018 12:12:06	65.60	3.63E+06
4/9/2018 12:13:06	67.60	5.75E+06
4/9/2018 12:14:06	64.60	2.88E+06
4/9/2018 12:15:06	70.30	1.07E+07
4/9/2018 12:16:06	66.90	4.90E+06
4/9/2018 12:17:06	76.10	4.07E+07
4/9/2018 12:18:06	49.50	8.91E+04
4/9/2018 12:19:06	50.10	1.02E+05
4/9/2018 12:20:06	65.10	3.24E+06
4/9/2018 12:21:06	67.30	5.37E+06
4/9/2018 12:22:06	50.80	1.20E+05
4/9/2018 12:23:06	50.90	1.23E+05
4/9/2018 12:24:06	65.80	3.80E+06
4/9/2018 12:25:06	63.20	2.09E+06
4/9/2018 12:26:06	66.00	3.98E+06
4/9/2018 12:27:06	64.60	2.88E+06
4/9/2018 12:28:06	73.20	2.09E+07
4/9/2018 12:29:06	67.00	5.01E+06
4/9/2018 12:30:06	62.50	1.78E+06
4/9/2018 12:31:06	71.70	1.48E+07
4/9/2018 12:32:06	65.30	3.39E+06
4/9/2018 12:33:06	65.60	3.63E+06

Location 7						
Timestamp (America/New_York)	Lmax (dB)	Lmin (dB)			2.69E+08	1.11E+06
Device	SoundPro RS232(A)	SoundPro RS232(A)	CountA:	26	Leq Max	Leq Min
			Ten Lmax/10	Ten Lmin/10	70.16	46.31
4/3/2018 10:43	67.7	48.1				
4/3/2018 10:47	68.6	46.4	5.89E+06	6.46E+04		
4/3/2018 10:48	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:48	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:49	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:50	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:51	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:52	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:53	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:54	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:55	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:56	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:57	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:58	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 10:59	68.6	46.4	7.24E+06	4.37E+04		
4/3/2018 11:00	72.1	46.4	7.24E+06	4.37E+04		
4/3/2018 11:01	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:02	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:03	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:04	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:05	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:06	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:07	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:08	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:09	72.1	46.4	1.62E+07	4.37E+04		
4/3/2018 11:10	72.1	46.4	1.62E+07	4.37E+04		

Round 3

Location 1		Elapsed Time [s]	Mass [mg/m3]	Elapsed Time [s]	Mass [mg/m3]
Instrument Name	DustTrak II	25200	0.02	65700	0.009
Model Number	8530	26100	0.02	72900	0
Serial Number	8530092510	27000	0.02	73800	0.001
Firmware Version	3.7	27900	0.02	74700	0.009
Calibration Date	5/24/2016	28800	0.02		
Test Name	MANUAL_002	29700	0.02		
Test Start Time	2:23:41 PM	30600	0.02		
Test Start Date	7/24/2018	31500	0.02		
Test Length [D:H:M]	0:20:45	32400	0.02		
Test Interval [M:S]	15:00	33300	0.02		
Mass Average [mg/m3]	0.017	34200	0.02		
Mass Minimum [mg/m3]	0	35100	0.02		
Mass Maximum [mg/m3]	0.02	36000	0.019		
Photometric User Cal	1	36900	0.019		
Flow User Cal	0	37800	0.019		
Errors		38700	0.019		
Number of Samples	76	39600	0.019		
Elapsed Time [s]	Mass [mg/m3]	40500	0.019		
900	0.009	41400	0.019		
1800	0.012	42300	0.018		
2700	0.014	43200	0.018		
3600	0.017	44100	0.018		
4500	0.018	45000	0.018		
5400	0.018	45900	0.018		
6300	0.018	46800	0.018		
7200	0.018	47700	0.018		
8100	0.018	48600	0.018		
9000	0.018	49500	0.018		
9900	0.018	50400	0.017		
10800	0.018	51300	0.018		
11700	0.018	52200	0.017		
12600	0.019	53100	0.017		
13500	0.019	54000	0.017		
14400	0.019	54900	0.016		
15300	0.02	55800	0.016		
16200	0.02	56700	0.016		
17100	0.019	57600	0.016		
18000	0.019	58500	0.015		
18900	0.02	59400	0.012		
19800	0.02	60300	0.012		
20700	0.02	61200	0.01		
21600	0.019	62100	0.011		
22500	0.019	63000	0.01		
23400	0.02	63900	0.009		
24300	0.019	64800	0.009		

Location 2		Total Average (mg/m ³) =	
Device	DustTrak RS232(C)		0.021
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/23/2018 13:40	0.024	7/23/2018 14:23	0.025
7/23/2018 13:41	0.023	7/23/2018 14:24	0.026
7/23/2018 13:42	0.023	7/23/2018 14:25	0.027
7/23/2018 13:43	0.023	7/23/2018 14:26	0.026
7/23/2018 13:44	0.023	7/23/2018 14:27	0.024
7/23/2018 13:45	0.022	7/23/2018 14:28	0.022
7/23/2018 13:46	0.023	7/23/2018 14:29	0.021
7/23/2018 13:47	0.022	7/23/2018 14:30	0.02
7/23/2018 13:48	0.022	7/23/2018 14:31	0.018
7/23/2018 13:49	0.023	7/23/2018 14:32	0.019
7/23/2018 13:50	0.022	7/23/2018 14:33	0.019
7/23/2018 13:51	0.022	7/23/2018 14:34	0.019
7/23/2018 13:52	0.022	7/23/2018 14:35	0.018
7/23/2018 13:53	0.022	7/23/2018 14:36	0.019
7/23/2018 13:54	0.022	7/23/2018 14:37	0.018
7/23/2018 13:55	0.022	7/23/2018 14:38	0.018
7/23/2018 13:56	0.022	7/23/2018 14:39	0.017
7/23/2018 13:57	0.022	7/23/2018 14:40	0.017
7/23/2018 13:58	0.022	7/23/2018 14:41	0.017
7/23/2018 13:59	0.022	7/23/2018 14:42	0.017
7/23/2018 14:00	0.022	7/23/2018 14:43	0.016
7/23/2018 14:01	0.022	7/23/2018 14:44	0.017
7/23/2018 14:02	0.022	7/23/2018 14:45	0.016
7/23/2018 14:03	0.021	7/23/2018 14:46	0.016
7/23/2018 14:04	0.021	7/23/2018 14:47	0.016
7/23/2018 14:05	0.021	7/23/2018 14:48	0.015
7/23/2018 14:06	0.022	7/23/2018 14:49	0.015
7/23/2018 14:07	0.021	7/23/2018 14:50	0.015
7/23/2018 14:08	0.022		
7/23/2018 14:09	0.022		
7/23/2018 14:10	0.022		
7/23/2018 14:11	0.021		
7/23/2018 14:12	0.022		
7/23/2018 14:13	0.022		
7/23/2018 14:14	0.022		
7/23/2018 14:15	0.022		
7/23/2018 14:16	0.022		
7/23/2018 14:17	0.022		
7/23/2018 14:18	0.022		
7/23/2018 14:19	0.023		
7/23/2018 14:20	0.023		
7/23/2018 14:21	0.024		
7/23/2018 14:22	0.024		

Location 3	Total Average (mg/m³) = 0.021
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Device	DustTrak RS232(C)				
Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/23/2018 15:01	0.023	7/23/2018 15:44	0	7/23/2018 16:27	0.021
7/23/2018 15:02	0.016	7/23/2018 15:45	0.022	7/23/2018 16:28	0.02
7/23/2018 15:03	0.017	7/23/2018 15:46	0.022	7/23/2018 16:29	0.02
7/23/2018 15:04	0.017	7/23/2018 15:47	0.022	7/23/2018 16:30	0.019
7/23/2018 15:05	0.017	7/23/2018 15:48	0.021	7/23/2018 16:31	0
7/23/2018 15:06	0.018	7/23/2018 15:49	0.022	7/23/2018 16:32	0.02
7/23/2018 15:07	0.018	7/23/2018 15:50	0.022	7/23/2018 16:33	0.02
7/23/2018 15:08	0.018	7/23/2018 15:51	0.021	7/23/2018 16:34	0.019
7/23/2018 15:09	0.018	7/23/2018 15:52	0.022	7/23/2018 16:35	0.02
7/23/2018 15:10	0.018	7/23/2018 15:53	0.022	7/23/2018 16:36	0.02
7/23/2018 15:11	0.018	7/23/2018 15:54	0.022	7/23/2018 16:37	0.02
7/23/2018 15:12	0.018	7/23/2018 15:55	0.022	7/23/2018 16:38	0.02
7/23/2018 15:13	0.019	7/23/2018 15:56	0.021	7/23/2018 16:39	0.02
7/23/2018 15:14	0.019	7/23/2018 15:57	0.021	7/23/2018 16:40	0.02
7/23/2018 15:15	0.02	7/23/2018 15:58	0.021	7/23/2018 16:41	0.02
7/23/2018 15:16	0.02	7/23/2018 15:59	0.021	7/23/2018 16:42	0.02
7/23/2018 15:17	0.021	7/23/2018 16:00	0.021	7/23/2018 16:43	0.02
7/23/2018 15:18	0.021	7/23/2018 16:01	0.021	7/23/2018 16:44	0.021
7/23/2018 15:19	0.021	7/23/2018 16:02	0.021	7/23/2018 16:45	0.021
7/23/2018 15:20	0.021	7/23/2018 16:03	0.021	7/23/2018 16:46	0.021
7/23/2018 15:21	0.021	7/23/2018 16:04	0.021	7/23/2018 16:47	0.021
7/23/2018 15:22	0.021	7/23/2018 16:05	0.021	7/23/2018 16:48	0.021
7/23/2018 15:23	0.021	7/23/2018 16:06	0.021	7/23/2018 16:49	0.021
7/23/2018 15:24	0.021	7/23/2018 16:07	0.021	7/23/2018 16:50	0.021
7/23/2018 15:25	0.021	7/23/2018 16:08	0.021	7/23/2018 16:51	0.021
7/23/2018 15:26	0.021	7/23/2018 16:09	0.021	7/23/2018 16:52	0.021
7/23/2018 15:27	0.021	7/23/2018 16:10	0.021	7/23/2018 16:53	0.021
7/23/2018 15:28	0.022	7/23/2018 16:11	0.021	7/23/2018 16:54	0.02
7/23/2018 15:29	0.021	7/23/2018 16:12	0.021	7/23/2018 16:55	0.021
7/23/2018 15:30	0.021	7/23/2018 16:13	0.021	7/23/2018 16:56	0.02
7/23/2018 15:31	0.021	7/23/2018 16:14	0.021	7/23/2018 16:57	0.021
7/23/2018 15:32	0.021	7/23/2018 16:15	0.021	7/23/2018 16:58	0.021
7/23/2018 15:33	0.023	7/23/2018 16:16	0.021	7/23/2018 16:59	0.021
7/23/2018 15:34	0.021	7/23/2018 16:17	0.021	7/23/2018 17:00	0.02
7/23/2018 15:35	0.022	7/23/2018 16:18	0.021	7/23/2018 17:01	0.021
7/23/2018 15:36	0.021	7/23/2018 16:19	0.021	7/23/2018 17:02	0.021
7/23/2018 15:37	0.021	7/23/2018 16:20	0.021	7/23/2018 17:03	0.02
7/23/2018 15:38	0.022	7/23/2018 16:21	0.021	7/23/2018 17:04	0.02
7/23/2018 15:39	0.021	7/23/2018 16:22	0.021	7/23/2018 17:05	0.02
7/23/2018 15:40	0.021	7/23/2018 16:23	0.021	7/23/2018 17:06	0.019
7/23/2018 15:41	0.021	7/23/2018 16:24	0.021	7/23/2018 17:07	0.02
7/23/2018 15:42	0.021	7/23/2018 16:25	0.021	7/23/2018 17:08	0.02
7/23/2018 15:43	0.022	7/23/2018 16:26	0.021	7/23/2018 17:09	0.02

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/23/2018 17:10	0.02	7/23/2018 17:56	0.022	7/23/2018 18:42	0.021
7/23/2018 17:11	0.02	7/23/2018 17:57	0.023	7/23/2018 18:43	0.021
7/23/2018 17:12	0.02	7/23/2018 17:58	0.022	7/23/2018 18:44	0.021
7/23/2018 17:13	0.02	7/23/2018 17:59	0.022	7/23/2018 18:45	0.021
7/23/2018 17:14	0.02	7/23/2018 18:00	0.022	7/23/2018 18:46	0.022
7/23/2018 17:15	0.02	7/23/2018 18:01	0.022	7/23/2018 18:47	0.022
7/23/2018 17:16	0.02	7/23/2018 18:02	0.021	7/23/2018 18:48	0.022
7/23/2018 17:17	0.02	7/23/2018 18:03	0.021	7/23/2018 18:49	0.022
7/23/2018 17:18	0	7/23/2018 18:04	0.021	7/23/2018 18:50	0.022
7/23/2018 17:19	0.02	7/23/2018 18:05	0	7/23/2018 18:51	0.022
7/23/2018 17:20	0.02	7/23/2018 18:06	0.021	7/23/2018 18:52	0
7/23/2018 17:21	0.02	7/23/2018 18:07	0.02	7/23/2018 18:53	0.022
7/23/2018 17:22	0.02	7/23/2018 18:08	0.02	7/23/2018 18:54	0.022
7/23/2018 17:23	0.02	7/23/2018 18:09	0.019	7/23/2018 18:55	0.022
7/23/2018 17:24	0.02	7/23/2018 18:10	0.018	7/23/2018 18:56	0.022
7/23/2018 17:25	0.02	7/23/2018 18:11	0.018	7/23/2018 18:57	0.022
7/23/2018 17:26	0.02	7/23/2018 18:12	0.018	7/23/2018 18:58	0.022
7/23/2018 17:27	0.02	7/23/2018 18:13	0.017	7/23/2018 18:59	0.022
7/23/2018 17:28	0.02	7/23/2018 18:14	0.017	7/23/2018 19:00	0.022
7/23/2018 17:29	0.02	7/23/2018 18:15	0.015	7/23/2018 19:01	0.022
7/23/2018 17:30	0.02	7/23/2018 18:16	0.015	7/23/2018 19:02	0.023
7/23/2018 17:31	0.02	7/23/2018 18:17	0.014	7/23/2018 19:03	0.024
7/23/2018 17:32	0.02	7/23/2018 18:18	0.014	7/23/2018 19:04	0.023
7/23/2018 17:33	0.021	7/23/2018 18:19	0.015	7/23/2018 19:05	0.022
7/23/2018 17:34	0.021	7/23/2018 18:20	0.014	7/23/2018 19:06	0.023
7/23/2018 17:35	0.021	7/23/2018 18:21	0.014	7/23/2018 19:07	0.023
7/23/2018 17:36	0.021	7/23/2018 18:22	0.014	7/23/2018 19:08	0.023
7/23/2018 17:37	0.021	7/23/2018 18:23	0.015	7/23/2018 19:09	0.023
7/23/2018 17:38	0.021	7/23/2018 18:24	0.015	7/23/2018 19:10	0.024
7/23/2018 17:39	0.021	7/23/2018 18:25	0.015	7/23/2018 19:11	0.023
7/23/2018 17:40	0.021	7/23/2018 18:26	0.015	7/23/2018 19:12	0.024
7/23/2018 17:41	0.021	7/23/2018 18:27	0.015	7/23/2018 19:13	0.024
7/23/2018 17:42	0.021	7/23/2018 18:28	0.016	7/23/2018 19:14	0.024
7/23/2018 17:43	0.021	7/23/2018 18:29	0.018	7/23/2018 19:15	0.024
7/23/2018 17:44	0.021	7/23/2018 18:30	0.017	7/23/2018 19:16	0.023
7/23/2018 17:45	0.021	7/23/2018 18:31	0.018	7/23/2018 19:17	0.023
7/23/2018 17:46	0.021	7/23/2018 18:32	0.018	7/23/2018 19:18	0.023
7/23/2018 17:47	0.021	7/23/2018 18:33	0.019	7/23/2018 19:19	0.024
7/23/2018 17:48	0.021	7/23/2018 18:34	0.02	7/23/2018 19:20	0.023
7/23/2018 17:49	0.021	7/23/2018 18:35	0.021	7/23/2018 19:21	0.023
7/23/2018 17:50	0.021	7/23/2018 18:36	0.021	7/23/2018 19:22	0.025
7/23/2018 17:51	0.021	7/23/2018 18:37	0.021	7/23/2018 19:23	0.024
7/23/2018 17:52	0.021	7/23/2018 18:38	0.021	7/23/2018 19:24	0.023
7/23/2018 17:53	0.021	7/23/2018 18:39	0.021	7/23/2018 19:25	0.023
7/23/2018 17:54	0.021	7/23/2018 18:40	0.021	7/23/2018 19:26	0.024
7/23/2018 17:55	0.021	7/23/2018 18:41	0.021	7/23/2018 19:27	0.024

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/23/2018 19:28	0.023	7/23/2018 20:14	0.023	7/23/2018 21:00	0.023
7/23/2018 19:29	0.024	7/23/2018 20:15	0.022	7/23/2018 21:01	0.023
7/23/2018 19:30	0.023	7/23/2018 20:16	0.023	7/23/2018 21:02	0.023
7/23/2018 19:31	0.024	7/23/2018 20:17	0.023	7/23/2018 21:03	0.022
7/23/2018 19:32	0.024	7/23/2018 20:18	0.023	7/23/2018 21:04	0.022
7/23/2018 19:33	0.025	7/23/2018 20:19	0.022	7/23/2018 21:05	0.022
7/23/2018 19:34	0.024	7/23/2018 20:20	0.022	7/23/2018 21:06	0.022
7/23/2018 19:35	0.024	7/23/2018 20:21	0.022	7/23/2018 21:07	0.022
7/23/2018 19:36	0.023	7/23/2018 20:22	0.023	7/23/2018 21:08	0.021
7/23/2018 19:37	0.024	7/23/2018 20:23	0.023	7/23/2018 21:09	0.021
7/23/2018 19:38	0.023	7/23/2018 20:24	0.023	7/23/2018 21:10	0.021
7/23/2018 19:39	0.024	7/23/2018 20:25	0.023	7/23/2018 21:11	0.021
7/23/2018 19:40	0.023	7/23/2018 20:26	0.022	7/23/2018 21:12	0.021
7/23/2018 19:41	0.023	7/23/2018 20:27	0.023	7/23/2018 21:13	0.021
7/23/2018 19:42	0.023	7/23/2018 20:28	0.024	7/23/2018 21:14	0.021
7/23/2018 19:43	0.024	7/23/2018 20:29	0.025	7/23/2018 21:15	0.02
7/23/2018 19:44	0.024	7/23/2018 20:30	0.024	7/23/2018 21:16	0.02
7/23/2018 19:45	0.023	7/23/2018 20:31	0.023	7/23/2018 21:17	0.021
7/23/2018 19:46	0.023	7/23/2018 20:32	0.024	7/23/2018 21:18	0.02
7/23/2018 19:47	0.023	7/23/2018 20:33	0.025	7/23/2018 21:19	0.02
7/23/2018 19:48	0.023	7/23/2018 20:34	0.024	7/23/2018 21:20	0.019
7/23/2018 19:49	0.022	7/23/2018 20:35	0.024	7/23/2018 21:21	0.019
7/23/2018 19:50	0.023	7/23/2018 20:36	0.024	7/23/2018 21:22	0.019
7/23/2018 19:51	0.022	7/23/2018 20:37	0.024	7/23/2018 21:23	0.019
7/23/2018 19:52	0.023	7/23/2018 20:38	0.023	7/23/2018 21:24	0.019
7/23/2018 19:53	0.023	7/23/2018 20:39	0.024	7/23/2018 21:25	0.019
7/23/2018 19:54	0.023	7/23/2018 20:40	0.024	7/23/2018 21:26	0.019
7/23/2018 19:55	0.023	7/23/2018 20:41	0.024	7/23/2018 21:27	0.019
7/23/2018 19:56	0.022	7/23/2018 20:42	0.024	7/23/2018 21:28	0.019
7/23/2018 19:57	0.023	7/23/2018 20:43	0.024	7/23/2018 21:29	0.019
7/23/2018 19:58	0.023	7/23/2018 20:44	0.024	7/23/2018 21:30	0.019
7/23/2018 19:59	0.023	7/23/2018 20:45	0.024	7/23/2018 21:31	0.019
7/23/2018 20:00	0.023	7/23/2018 20:46	0.024	7/23/2018 21:32	0.019
7/23/2018 20:01	0.022	7/23/2018 20:47	0.024	7/23/2018 21:33	0.019
7/23/2018 20:02	0.023	7/23/2018 20:48	0.023	7/23/2018 21:34	0.019
7/23/2018 20:03	0.023	7/23/2018 20:49	0.023	7/23/2018 21:35	0.018
7/23/2018 20:04	0.022	7/23/2018 20:50	0.024	7/23/2018 21:36	0.019
7/23/2018 20:05	0.022	7/23/2018 20:51	0.024	7/23/2018 21:37	0.019
7/23/2018 20:06	0.022	7/23/2018 20:52	0.024	7/23/2018 21:38	0.019
7/23/2018 20:07	0.023	7/23/2018 20:53	0.023	7/23/2018 21:39	0.018
7/23/2018 20:08	0.022	7/23/2018 20:54	0.023	7/23/2018 21:40	0.018
7/23/2018 20:09	0.023	7/23/2018 20:55	0.023	7/23/2018 21:41	0.019
7/23/2018 20:10	0.022	7/23/2018 20:56	0.022	7/23/2018 21:42	0.018
7/23/2018 20:11	0.023	7/23/2018 20:57	0.023	7/23/2018 21:43	0.019
7/23/2018 20:12	0.022	7/23/2018 20:58	0.023	7/23/2018 21:44	0.018
7/23/2018 20:13	0.022	7/23/2018 20:59	0.023	7/23/2018 21:45	0.017

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/23/2018 21:46	0.018	7/23/2018 22:32	0.021	7/23/2018 23:18	0.022
7/23/2018 21:47	0.017	7/23/2018 22:33	0.021	7/23/2018 23:19	0.022
7/23/2018 21:48	0.017	7/23/2018 22:34	0.021	7/23/2018 23:20	0.022
7/23/2018 21:49	0.017	7/23/2018 22:35	0.021	7/23/2018 23:21	0.022
7/23/2018 21:50	0.017	7/23/2018 22:36	0.021	7/23/2018 23:22	0.022
7/23/2018 21:51	0.017	7/23/2018 22:37	0.021	7/23/2018 23:23	0.022
7/23/2018 21:52	0.017	7/23/2018 22:38	0.021	7/23/2018 23:24	0.022
7/23/2018 21:53	0.017	7/23/2018 22:39	0.021	7/23/2018 23:25	0.022
7/23/2018 21:54	0.017	7/23/2018 22:40	0.021	7/23/2018 23:26	0.022
7/23/2018 21:55	0.017	7/23/2018 22:41	0.021	7/23/2018 23:27	0.023
7/23/2018 21:56	0.017	7/23/2018 22:42	0.021	7/23/2018 23:28	0.022
7/23/2018 21:57	0.018	7/23/2018 22:43	0.021	7/23/2018 23:29	0.022
7/23/2018 21:58	0.017	7/23/2018 22:44	0.021	7/23/2018 23:30	0.022
7/23/2018 21:59	0.017	7/23/2018 22:45	0.021	7/23/2018 23:31	0.022
7/23/2018 22:00	0.017	7/23/2018 22:46	0.022	7/23/2018 23:32	0.022
7/23/2018 22:01	0.018	7/23/2018 22:47	0.022	7/23/2018 23:33	0.022
7/23/2018 22:02	0.018	7/23/2018 22:48	0.021	7/23/2018 23:34	0.022
7/23/2018 22:03	0.018	7/23/2018 22:49	0.022	7/23/2018 23:35	0.022
7/23/2018 22:04	0.019	7/23/2018 22:50	0.022	7/23/2018 23:36	0.022
7/23/2018 22:05	0.019	7/23/2018 22:51	0.022	7/23/2018 23:37	0.022
7/23/2018 22:06	0.018	7/23/2018 22:52	0.022	7/23/2018 23:38	0.022
7/23/2018 22:07	0.018	7/23/2018 22:53	0.022	7/23/2018 23:39	0.021
7/23/2018 22:08	0.019	7/23/2018 22:54	0.022	7/23/2018 23:40	0.021
7/23/2018 22:09	0.019	7/23/2018 22:55	0.022	7/23/2018 23:41	0.021
7/23/2018 22:10	0.019	7/23/2018 22:56	0.022	7/23/2018 23:42	0.021
7/23/2018 22:11	0.019	7/23/2018 22:57	0.022	7/23/2018 23:43	0.021
7/23/2018 22:12	0.018	7/23/2018 22:58	0.021	7/23/2018 23:44	0.021
7/23/2018 22:13	0.019	7/23/2018 22:59	0.021	7/23/2018 23:45	0.021
7/23/2018 22:14	0.018	7/23/2018 23:00	0.022	7/23/2018 23:46	0.021
7/23/2018 22:15	0.018	7/23/2018 23:01	0.022	7/23/2018 23:47	0.021
7/23/2018 22:16	0.019	7/23/2018 23:02	0.022	7/23/2018 23:48	0.021
7/23/2018 22:17	0.019	7/23/2018 23:03	0.022	7/23/2018 23:49	0.021
7/23/2018 22:18	0.019	7/23/2018 23:04	0.021	7/23/2018 23:50	0.021
7/23/2018 22:19	0.019	7/23/2018 23:05	0.022	7/23/2018 23:51	0.021
7/23/2018 22:20	0.018	7/23/2018 23:06	0.022	7/23/2018 23:52	0.021
7/23/2018 22:21	0.019	7/23/2018 23:07	0.021	7/23/2018 23:53	0.021
7/23/2018 22:22	0.019	7/23/2018 23:08	0.021	7/23/2018 23:54	0.021
7/23/2018 22:23	0.02	7/23/2018 23:09	0.022	7/23/2018 23:55	0.021
7/23/2018 22:24	0.02	7/23/2018 23:10	0.022	7/23/2018 23:56	0.02
7/23/2018 22:25	0.019	7/23/2018 23:11	0.022	7/23/2018 23:57	0.021
7/23/2018 22:26	0.02	7/23/2018 23:12	0.022	7/23/2018 23:58	0.021
7/23/2018 22:27	0.02	7/23/2018 23:13	0.022	7/23/2018 23:59	0.021
7/23/2018 22:28	0.021	7/23/2018 23:14	0.022	7/24/2018 0:00	0.021
7/23/2018 22:29	0.02	7/23/2018 23:15	0.022	7/24/2018 0:01	0.021
7/23/2018 22:30	0.021	7/23/2018 23:16	0.022	7/24/2018 0:02	0.021
7/23/2018 22:31	0.021	7/23/2018 23:17	0.022	7/24/2018 0:03	0.021

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/24/2018 0:04	0.021	7/24/2018 0:50	0.021	7/24/2018 1:36	0.021
7/24/2018 0:05	0.021	7/24/2018 0:51	0.021	7/24/2018 1:37	0.021
7/24/2018 0:06	0.021	7/24/2018 0:52	0.021	7/24/2018 1:38	0.021
7/24/2018 0:07	0.021	7/24/2018 0:53	0.021	7/24/2018 1:39	0.021
7/24/2018 0:08	0.021	7/24/2018 0:54	0.021	7/24/2018 1:40	0.021
7/24/2018 0:09	0.021	7/24/2018 0:55	0.021	7/24/2018 1:41	0.021
7/24/2018 0:10	0.021	7/24/2018 0:56	0.021	7/24/2018 1:42	0.021
7/24/2018 0:11	0.02	7/24/2018 0:57	0.021	7/24/2018 1:43	0.021
7/24/2018 0:12	0.021	7/24/2018 0:58	0.021	7/24/2018 1:44	0.021
7/24/2018 0:13	0.021	7/24/2018 0:59	0.021	7/24/2018 1:45	0.02
7/24/2018 0:14	0.021	7/24/2018 1:00	0.021	7/24/2018 1:46	0.02
7/24/2018 0:15	0.021	7/24/2018 1:01	0.022	7/24/2018 1:47	0.02
7/24/2018 0:16	0.021	7/24/2018 1:02	0.021	7/24/2018 1:48	0.019
7/24/2018 0:17	0.021	7/24/2018 1:03	0.021	7/24/2018 1:49	0.02
7/24/2018 0:18	0.021	7/24/2018 1:04	0.021	7/24/2018 1:50	0.019
7/24/2018 0:19	0.02	7/24/2018 1:05	0.021	7/24/2018 1:51	0.019
7/24/2018 0:20	0.02	7/24/2018 1:06	0.021	7/24/2018 1:52	0.018
7/24/2018 0:21	0.021	7/24/2018 1:07	0.02	7/24/2018 1:53	0.019
7/24/2018 0:22	0.021	7/24/2018 1:08	0.02	7/24/2018 1:54	0.018
7/24/2018 0:23	0.02	7/24/2018 1:09	0.02	7/24/2018 1:55	0.018
7/24/2018 0:24	0.021	7/24/2018 1:10	0.02	7/24/2018 1:56	0.018
7/24/2018 0:25	0.02	7/24/2018 1:11	0.02	7/24/2018 1:57	0.018
7/24/2018 0:26	0.021	7/24/2018 1:12	0.021	7/24/2018 1:58	0.018
7/24/2018 0:27	0.021	7/24/2018 1:13	0.02	7/24/2018 1:59	0.018
7/24/2018 0:28	0.021	7/24/2018 1:14	0.02	7/24/2018 2:00	0.019
7/24/2018 0:29	0.021	7/24/2018 1:15	0.021	7/24/2018 2:01	0.018
7/24/2018 0:30	0.021	7/24/2018 1:16	0.02	7/24/2018 2:02	0.018
7/24/2018 0:31	0.021	7/24/2018 1:17	0.02	7/24/2018 2:03	0.018
7/24/2018 0:32	0.021	7/24/2018 1:18	0.021	7/24/2018 2:04	0.018
7/24/2018 0:33	0.021	7/24/2018 1:19	0.021	7/24/2018 2:05	0.019
7/24/2018 0:34	0.021	7/24/2018 1:20	0.021	7/24/2018 2:06	0.019
7/24/2018 0:35	0.021	7/24/2018 1:21	0.021	7/24/2018 2:07	0.019
7/24/2018 0:36	0.021	7/24/2018 1:22	0.021	7/24/2018 2:08	0.019
7/24/2018 0:37	0.021	7/24/2018 1:23	0.021	7/24/2018 2:09	0.019
7/24/2018 0:38	0.021	7/24/2018 1:24	0.021	7/24/2018 2:10	0.019
7/24/2018 0:39	0.021	7/24/2018 1:25	0.021	7/24/2018 2:11	0.019
7/24/2018 0:40	0.021	7/24/2018 1:26	0.021	7/24/2018 2:12	0.019
7/24/2018 0:41	0.021	7/24/2018 1:27	0.021	7/24/2018 2:13	0.019
7/24/2018 0:42	0.021	7/24/2018 1:28	0.021	7/24/2018 2:14	0.02
7/24/2018 0:43	0.021	7/24/2018 1:29	0.021	7/24/2018 2:15	0.02
7/24/2018 0:44	0.021	7/24/2018 1:30	0.021	7/24/2018 2:16	0.02
7/24/2018 0:45	0.021	7/24/2018 1:31	0.021	7/24/2018 2:17	0.019
7/24/2018 0:46	0.021	7/24/2018 1:32	0.021	7/24/2018 2:18	0.019
7/24/2018 0:47	0.021	7/24/2018 1:33	0.021	7/24/2018 2:19	0.019
7/24/2018 0:48	0.021	7/24/2018 1:34	0.021	7/24/2018 2:20	0.019
7/24/2018 0:49	0.021	7/24/2018 1:35	0.021	7/24/2018 2:21	0.02

Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)	Timestamp (America/New_York)	Mass Conc. Total (mg/m ³)
7/24/2018 2:22	0.02	7/24/2018 3:08	0.021
7/24/2018 2:23	0.02	7/24/2018 3:09	0.021
7/24/2018 2:24	0.02	7/24/2018 3:10	0.021
7/24/2018 2:25	0.02	7/24/2018 3:11	0.021
7/24/2018 2:26	0.02	7/24/2018 3:12	0.018
7/24/2018 2:27	0.019	7/24/2018 3:13	0.012
7/24/2018 2:28	0.02	7/24/2018 3:14	0.021
7/24/2018 2:29	0.019	7/24/2018 3:15	0.01
7/24/2018 2:30	0.02	7/24/2018 3:16	0.016
7/24/2018 2:31	0.02	7/24/2018 3:17	0.015
7/24/2018 2:32	0.019	7/24/2018 3:18	0.012
7/24/2018 2:33	0.02	7/24/2018 3:19	0.011
7/24/2018 2:34	0.02		
7/24/2018 2:35	0.02		
7/24/2018 2:36	0.019		
7/24/2018 2:37	0.019		
7/24/2018 2:38	0.019		
7/24/2018 2:39	0.019		
7/24/2018 2:40	0.019		
7/24/2018 2:41	0.02		
7/24/2018 2:42	0.019		
7/24/2018 2:43	0.019		
7/24/2018 2:44	0.019		
7/24/2018 2:45	0.019		
7/24/2018 2:46	0.02		
7/24/2018 2:47	0.02		
7/24/2018 2:48	0.02		
7/24/2018 2:49	0.02		
7/24/2018 2:50	0.02		
7/24/2018 2:51	0.021		
7/24/2018 2:52	0.02		
7/24/2018 2:53	0.02		
7/24/2018 2:54	0.02		
7/24/2018 2:55	0.02		
7/24/2018 2:56	0.02		
7/24/2018 2:57	0.02		
7/24/2018 2:58	0.02		
7/24/2018 2:59	0.021		
7/24/2018 3:00	0.02		
7/24/2018 3:01	0.021		
7/24/2018 3:02	0.021		
7/24/2018 3:03	0.021		
7/24/2018 3:04	0.02		
7/24/2018 3:05	0.021		
7/24/2018 3:06	0.021		
7/24/2018 3:07	0.021		

Location 4		Total Average (mg/m³) =	0.005
Device	DustTrak RS232(C)		
Timestamp (America/New_York)	Mass Conc. Total (mg/m³)		
7/24/2018 12:38	0.016		
7/24/2018 12:39	0.007		
7/24/2018 12:40	0.002		
7/24/2018 12:41	0.001		
7/24/2018 12:42	0.001		
7/24/2018 12:43	0.002		
7/24/2018 12:44	0.001		
7/24/2018 12:45	0		
7/24/2018 12:46	0		
7/24/2018 12:47	0.001		
7/24/2018 12:48	0.001		
7/24/2018 12:49	0.002		
7/24/2018 12:50	0.002		
7/24/2018 12:51	0.003		
7/24/2018 12:52	0.003		
7/24/2018 12:53	0.004		
7/24/2018 12:54	0.004		
7/24/2018 12:55	0.005		
7/24/2018 12:56	0.005		
7/24/2018 12:57	0.006		
7/24/2018 12:58	0.005		
7/24/2018 12:59	0.006		
7/24/2018 13:00	0.006		
7/24/2018 13:01	0.006		
7/24/2018 13:02	0.006		
7/24/2018 13:03	0.006		
7/24/2018 13:04	0.006		
7/24/2018 13:05	0.007		
7/24/2018 13:06	0.006		
7/24/2018 13:07	0.007		
7/24/2018 13:08	0.007		
7/24/2018 13:09	0.008		
7/24/2018 13:10	0.008		
7/24/2018 13:11	0.008		
7/24/2018 13:12	0.009		
7/24/2018 13:13	0.009		
7/24/2018 13:14	0.01		
7/24/2018 13:15	0.01		
7/24/2018 13:16	0.01		
7/24/2018 13:17	0.011		

Location 5		Total Average (mg/m³) = 0.022
Device	DustTrak RS232(C)	
Timestamp (America/New_York)	Mass Conc. Total (mg/m³)	
7/23/2018 12:48	0.02	
7/23/2018 12:49	0.021	
7/23/2018 12:50	0.021	
7/23/2018 12:51	0.021	
7/23/2018 12:52	0.021	
7/23/2018 12:53	0.021	
7/23/2018 12:54	0.021	
7/23/2018 12:55	0.021	
7/23/2018 12:56	0.021	
7/23/2018 12:57	0.021	
7/23/2018 12:58	0.022	
7/23/2018 12:59	0.022	
7/23/2018 13:00	0.021	
7/23/2018 13:01	0.022	
7/23/2018 13:02	0.022	
7/23/2018 13:03	0.021	
7/23/2018 13:04	0.022	
7/23/2018 13:05	0.021	
7/23/2018 13:06	0.022	
7/23/2018 13:07	0.022	
7/23/2018 13:08	0.022	
7/23/2018 13:09	0.021	
7/23/2018 13:10	0.022	
7/23/2018 13:11	0.022	
7/23/2018 13:12	0.022	
7/23/2018 13:13	0.022	
7/23/2018 13:14	0.022	
7/23/2018 13:15	0.022	
7/23/2018 13:16	0.022	
7/23/2018 13:17	0.022	
7/23/2018 13:18	0.022	
7/23/2018 13:19	0.022	
7/23/2018 13:20	0.022	
7/23/2018 13:21	0.022	
7/23/2018 13:22	0.022	
7/23/2018 13:23	0.022	
7/23/2018 13:24	0.022	
7/23/2018 13:25	0.022	
7/23/2018 13:26	0.022	

Location 7		Total Average (mg/m³) =	0.017
Device	DustTrak RS232(C)		
Timestamp (America/New_York)	Mass Conc. Total (mg/m³)		
7/23/2018 11:40	0.007		
7/23/2018 11:41	0.009		
7/23/2018 11:42	0.01		
7/23/2018 11:43	0.011		
7/23/2018 11:44	0.013		
7/23/2018 11:45	0.011		
7/23/2018 11:46	0.012		
7/23/2018 11:47	0.013		
7/23/2018 11:48	0.013		
7/23/2018 11:49	0.013		
7/23/2018 11:50	0.014		
7/23/2018 11:51	0.014		
7/23/2018 11:52	0.014		
7/23/2018 11:53	0.015		
7/23/2018 11:54	0.015		
7/23/2018 11:55	0.016		
7/23/2018 11:56	0.017		
7/23/2018 11:57	0.017		
7/23/2018 11:58	0.018		
7/23/2018 11:59	0.018		
7/23/2018 12:00	0.019		
7/23/2018 12:01	0.019		
7/23/2018 12:02	0.019		
7/23/2018 12:03	0.02		
7/23/2018 12:04	0.021		
7/23/2018 12:05	0.02		
7/23/2018 12:06	0.02		
7/23/2018 12:07	0.02		
7/23/2018 12:08	0.021		
7/23/2018 12:09	0.021		
7/23/2018 12:10	0.021		
7/23/2018 12:11	0.021		
7/23/2018 12:12	0.021		
7/23/2018 12:13	0.021		
7/23/2018 12:14	0.021		
7/23/2018 12:15	0.021		
7/23/2018 12:16	0.021		
7/23/2018 12:17	0.021		
7/23/2018 12:18	0.021		
7/23/2018 12:19	0.021		
7/23/2018 12:20	0.022		

Location 8	
Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530092510
Firmware Version	3.7
Calibration Date	5/24/2016
Test Name	MANUAL_003
Test Start Time	11:25:26 AM
Test Start Date	7/25/2018
Test Length [D:H:M]	0:01:30
Test Interval [M:S]	15:00
Mass Average [mg/m3]	0.0035
Mass Minimum [mg/m3]	0
Mass Maximum [mg/m3]	0.005
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	6
Elapsed Time [s]	Mass [mg/m3]
900	0
1800	0.002
2700	0.004
3600	0.005
4500	0.005
5400	0.005

Location 1															
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	CountA:	357	Sum ten	Sum ten
												Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
7/24/2018 14:26:51	49.70	33.70	49.90	70.30	32.50	93.90	49.90	62.80	33.00	70.30	32.50	1.74E+04	1.95E+03	52.79	34.52
7/24/2018 14:27:51	37.30	34.20	35.70	42.40	32.90	68.50	35.70	37.90	33.40	42.40	32.90	5.50E+04	2.88E+03		
7/24/2018 14:28:51	41.70	36.60	39.40	47.40	34.60	58.80	39.30	44.50	35.00	47.40	34.60	4.68E+04	3.02E+03		
7/24/2018 14:29:51	42.90	36.70	40.40	46.70	34.80	60.50	40.30	44.00	35.60	46.70	34.80	4.07E+05	3.63E+03		
7/24/2018 14:30:51	49.50	37.00	45.50	56.10	35.60	67.20	45.50	54.30	36.00	56.10	35.60	2.75E+04	3.39E+03		
7/24/2018 14:31:51	42.20	35.90	39.50	44.40	35.30	56.40	39.40	43.30	35.50	44.40	35.30	4.90E+04	8.13E+03		
7/24/2018 14:32:51	43.70	40.20	42.40	46.90	39.10	59.90	42.20	46.20	39.50	46.90	39.10	1.32E+06	1.86E+04		
7/24/2018 14:33:51	56.00	44.10	51.40	61.20	42.70	72.90	51.00	60.00	43.30	61.20	42.70	3.80E+05	4.79E+03		
7/24/2018 14:34:51	47.60	37.70	44.10	55.80	36.80	65.90	45.60	58.20	37.20	55.80	36.80	7.24E+04	4.17E+03		
7/24/2018 14:35:51	47.20	37.30	43.80	48.60	36.20	61.20	43.70	47.90	36.80	48.60	36.20	1.15E+05	6.92E+03		
7/24/2018 14:36:51	46.50	40.10	44.00	50.60	38.40	62.80	44.00	49.70	38.80	50.60	38.40	1.07E+04	2.29E+03		
7/24/2018 14:37:51	39.10	34.30	36.40	40.30	33.60	52.90	36.50	40.50	33.90	40.30	33.60	1.02E+05	2.45E+03		
7/24/2018 14:38:51	47.00	34.90	42.30	50.10	33.90	75.00	42.20	49.00	34.40	50.10	33.90	4.17E+04	3.09E+03		
7/24/2018 14:39:51	42.90	35.60	39.00	46.20	34.90	60.80	39.00	44.80	35.30	46.20	34.90	4.90E+04	2.63E+03		
7/24/2018 14:40:51	43.50	35.10	40.70	46.90	34.20	58.90	40.60	46.00	34.60	46.90	34.20	5.37E+04	4.47E+03		
7/24/2018 14:41:51	43.90	38.10	41.00	47.30	36.50	62.50	41.00	45.20	37.10	47.30	36.50	5.75E+04	4.68E+03		
7/24/2018 14:42:51	42.10	37.30	39.50	47.60	36.70	75.20	39.50	42.40	37.00	47.60	36.70	3.63E+04	6.76E+03		
7/24/2018 14:43:51	42.60	39.10	41.20	45.60	38.30	57.50	41.10	44.50	38.60	45.60	38.30	3.02E+04	4.47E+03		
7/24/2018 14:44:51	40.70	37.30	39.30	44.80	36.50	59.00	39.20	43.90	36.90	44.80	36.50	6.31E+04	2.63E+03		
7/24/2018 14:45:51	42.00	35.10	38.70	48.00	34.20	59.10	38.40	46.00	34.70	48.00	34.20	4.57E+04	4.27E+03		
7/24/2018 14:46:51	43.20	37.20	40.20	46.60	36.30	58.40	40.30	46.00	36.60	46.60	36.30	2.34E+05	6.76E+03		
7/24/2018 14:47:51	49.30	38.90	45.20	53.70	38.30	65.60	45.00	52.80	38.60	53.70	38.30	2.45E+05	4.68E+03		
7/24/2018 14:48:51	45.10	38.10	43.90	53.90	36.70	66.90	43.50	53.10	37.30	53.90	36.70	2.63E+05	7.41E+03		
7/24/2018 14:49:51	46.20	40.10	44.10	54.20	38.70	65.80	44.50	53.20	39.40	54.20	38.70	4.07E+04	7.41E+03		
7/24/2018 14:50:51	44.50	39.40	41.60	46.10	38.70	59.10	41.60	45.70	39.20	46.10	38.70	4.79E+04	6.76E+03		
7/24/2018 14:51:51	45.60	39.40	43.50	46.80	38.30	59.80	43.40	46.30	38.60	46.80	38.30	1.00E+05	1.23E+04		
7/24/2018 14:52:51	48.90	42.70	46.80	50.00	40.90	72.60	46.70	49.60	41.40	50.00	40.90	2.29E+05	7.94E+03		
7/24/2018 14:53:51	51.60	39.70	46.00	53.60	39.00	65.50	46.00	52.40	39.30	53.60	39.00	4.47E+05	5.89E+03		
7/24/2018 14:54:51	52.80	39.10	48.20	56.50	37.70	70.10	48.20	56.00	38.00	56.50	37.70	9.77E+04	5.89E+03		
7/24/2018 14:55:51	46.80	39.50	44.10	49.90	37.70	62.10	44.00	48.90	38.00	49.90	37.70	4.68E+04	7.76E+03		
7/24/2018 14:56:51	44.40	40.00	42.30	46.70	38.90	59.80	42.20	45.80	39.20	46.70	38.90	1.15E+05	5.25E+03		
7/24/2018 14:57:51	48.00	38.90	44.30	50.60	37.20	62.10	44.30	49.60	37.60	50.60	37.20	2.04E+04	3.55E+03		
7/24/2018 14:58:51	40.50	36.20	38.10	43.10	35.50	56.50	38.00	42.50	35.80	43.10	35.50	2.04E+04	3.02E+03		
7/24/2018 14:59:51	39.10	35.40	37.40	43.10	34.80	54.80	37.20	42.20	35.10	43.10	34.80	1.35E+05	1.02E+04		
7/24/2018 15:00:51	46.10	40.90	44.00	51.30	40.10	62.40	43.90	49.70	40.50	51.30	40.10	1.02E+05	3.02E+03		
7/24/2018 15:01:51	46.40	35.60	42.40	50.10	34.80	60.80	42.30	48.40	35.20	50.10	34.80	4.07E+04	2.82E+03		
7/24/2018 15:02:51	43.60	35.70	39.60	46.10	34.50	58.00	39.70	45.00	35.00	46.10	34.50	3.39E+04	2.69E+03		
7/24/2018 15:03:51	40.60	34.80	37.50	45.30	34.30	57.20	37.20	44.10	34.50	45.30	34.30	4.79E+04	6.17E+03		
7/24/2018 15:04:51	45.20	38.60	42.70	46.80	37.90	59.60	42.70	46.20	38.10	46.80	37.90	3.16E+04	4.68E+03		
7/24/2018 15:05:51	41.50	37.80	39.50	45.00	36.70	56.50	39.40	43.90	37.20	45.00	36.70	1.62E+04	3.24E+03		
7/24/2018 15:06:51	41.20	35.80	38.70	42.10	35.10	62.30	38.60	41.60	35.30	42.10	35.10	1.55E+05	3.63E+03		
7/24/2018 15:07:51	47.10	36.50	42.70	51.90	35.60	66.20	42.50	49.30	36.00	51.90	35.60	1.41E+05	4.07E+03		
7/24/2018 15:08:51	46.60	37.80	43.10	51.50	36.10	63.80	43.00	49.10	36.50	51.50	36.10	7.08E+04	1.86E+03		
7/24/2018 15:09:51	44.30	33.60	39.90	48.50	32.70	60.20	40.30	48.20	33.10	48.50	32.70	1.45E+04	2.04E+03		
7/24/2018 15:10:51	37.50	34.40	35.90	41.60	33.10	53.10	35.90	40.10	33.50	41.60	33.10	7.59E+04	3.24E+03		
7/24/2018 15:11:51	43.70	36.00	40.20	48.80	35.10	60.30	40.10	47.10	35.40	48.80	35.10	2.24E+04	3.47E+03		
7/24/2018 15:12:51	40.80	36.10	38.00	43.50	35.40	58.20	37.90	42.40	35.90	43.50	35.40	5.50E+04	3.24E+03		
7/24/2018 15:13:51	44.20	37.10	41.20	47.40	35.10	58.90	41.10	46.00	35.50	47.40	35.10	5.89E+04	2.88E+03		
7/24/2018 15:14:51	43.80	36.40	40.30	47.70	34.60	60.10	40.10	45.70	36.00	47.70	34.60				

7/24/2018 15:15:51	43.10	38.40	41.00	45.40	36.50	59.20	40.90	44.00	37.70	45.40	36.50	3.47E+04	4.47E+03
7/24/2018 15:16:51	46.40	40.30	43.90	47.80	38.30	60.60	43.80	46.80	39.50	47.80	38.30	6.03E+04	6.76E+03
7/24/2018 15:17:51	44.70	37.50	42.10	47.60	35.80	61.10	42.10	46.50	36.60	47.60	35.80	5.75E+04	3.80E+03
7/24/2018 15:18:51	42.50	37.50	40.10	45.20	35.80	57.40	40.00	42.50	37.00	45.20	35.80	3.31E+04	3.80E+03
7/24/2018 15:19:51	44.20	35.50	41.00	48.10	34.40	60.20	40.80	45.20	34.90	48.10	34.40	6.46E+04	2.75E+03
7/24/2018 15:20:51	51.00	42.00	46.80	55.60	40.40	66.70	46.50	53.50	40.90	55.60	40.40	3.63E+05	1.10E+04
7/24/2018 15:21:51	44.20	35.50	40.90	49.80	34.80	60.40	41.60	51.80	35.10	49.80	34.80	9.55E+04	3.02E+03
7/24/2018 15:22:51	42.80	33.10	38.90	46.40	32.10	57.70	38.90	44.80	32.50	46.40	32.10	4.37E+04	1.62E+03
7/24/2018 15:23:51	38.40	33.20	35.80	40.80	32.30	52.40	35.60	40.20	32.70	40.80	32.30	1.20E+04	1.70E+03
7/24/2018 15:24:51	39.60	35.90	37.70	41.40	35.10	59.00	37.70	40.30	35.40	41.40	35.10	1.38E+04	3.24E+03
7/24/2018 15:25:51	42.60	35.00	40.00	45.40	34.10	56.90	40.00	43.30	34.40	45.40	34.10	3.47E+04	2.57E+03
7/24/2018 15:26:51	44.00	35.00	40.80	48.30	33.30	60.70	40.80	47.00	33.80	48.30	33.30	6.76E+04	2.14E+03
7/24/2018 15:27:51	43.30	35.50	39.50	45.40	34.90	59.50	39.50	44.60	35.20	45.40	34.90	3.47E+04	3.09E+03
7/24/2018 15:28:51	41.90	35.10	39.70	45.60	34.00	56.50	39.70	43.90	34.40	45.60	34.00	3.63E+04	2.51E+03
7/24/2018 15:29:51	45.00	36.90	41.60	47.70	35.70	59.20	41.60	46.70	35.40	47.70	35.70	5.89E+04	3.72E+03
7/24/2018 15:30:51	47.00	39.40	44.40	51.40	37.10	63.10	44.30	50.30	37.00	51.40	37.10	1.38E+05	5.13E+03
7/24/2018 15:31:51	47.20	37.00	43.00	47.90	34.40	61.20	43.00	47.50	35.00	47.90	34.40	6.17E+04	2.75E+03
7/24/2018 15:32:51	43.90	35.50	39.40	48.50	34.60	59.90	39.40	46.50	35.00	48.50	34.60	7.08E+04	2.88E+03
7/24/2018 15:33:51	40.60	34.80	37.40	43.90	33.70	56.80	37.10	42.90	34.00	43.90	33.70	2.45E+04	2.34E+03
7/24/2018 15:34:51	49.30	41.70	45.20	51.30	41.10	63.60	45.20	50.20	41.30	51.30	41.10	1.35E+05	1.29E+04
7/24/2018 15:35:51	41.80	35.30	39.20	42.80	34.50	55.30	39.20	41.90	34.80	42.80	34.50	1.91E+04	2.82E+03
7/24/2018 15:36:51	48.30	35.20	44.90	50.80	34.10	63.40	44.90	49.80	34.50	50.80	34.10	1.20E+05	2.57E+03
7/24/2018 15:37:51	43.10	37.80	40.40	47.80	36.70	59.60	40.30	45.70	37.00	47.80	36.70	6.03E+04	4.68E+03
7/24/2018 15:38:51	47.40	34.70	42.60	51.00	34.00	63.10	42.50	49.10	34.40	51.00	34.00	1.26E+05	2.51E+03
7/24/2018 15:39:51	46.10	39.80	43.10	47.70	39.10	63.30	43.10	47.10	39.40	47.70	39.10	5.89E+04	8.13E+03
7/24/2018 15:40:51	40.80	36.20	38.70	44.10	35.40	56.80	38.70	43.40	35.70	44.10	35.40	2.57E+04	3.47E+03
7/24/2018 15:41:51	42.50	36.20	40.10	43.70	35.30	55.90	39.90	43.10	35.70	43.70	35.30	2.34E+04	3.39E+03
7/24/2018 15:42:51	41.20	36.90	39.10	42.40	36.10	61.60	39.10	41.70	36.30	42.40	36.10	1.74E+04	4.07E+03
7/24/2018 15:43:51	42.30	37.80	40.20	43.30	36.80	56.00	40.10	42.90	37.00	43.30	36.80	2.14E+04	4.79E+03
7/24/2018 15:44:51	48.90	41.00	45.30	49.90	39.50	63.20	45.20	49.50	39.10	49.90	39.50	9.77E+04	8.91E+03
7/24/2018 15:45:51	44.50	38.70	41.70	46.10	37.70	58.80	41.80	45.80	38.00	46.10	37.70	4.07E+04	5.89E+03
7/24/2018 15:46:51	41.80	37.60	40.00	44.10	36.60	56.40	39.90	42.90	37.00	44.10	36.60	2.57E+04	4.57E+03
7/24/2018 15:47:51	42.10	35.60	39.90	45.80	34.70	56.80	39.90	44.40	34.90	45.80	34.70	3.80E+04	2.95E+03
7/24/2018 15:48:51	51.30	42.40	48.50	52.30	39.30	64.80	48.30	51.60	39.60	52.30	39.30	1.70E+05	8.51E+03
7/24/2018 15:49:51	55.10	40.10	50.20	56.70	38.90	69.20	50.20	55.70	39.20	56.70	38.90	4.68E+05	7.76E+03
7/24/2018 15:50:51	46.10	40.00	43.00	47.70	38.80	59.80	42.90	47.00	39.10	47.70	38.80	5.89E+04	7.59E+03
7/24/2018 15:51:51	45.40	38.40	42.40	47.30	37.40	59.00	42.30	45.80	37.80	47.30	37.40	5.37E+04	5.50E+03
7/24/2018 15:52:51	45.00	40.40	43.30	46.80	39.50	58.90	43.20	46.00	40.00	46.80	39.50	4.79E+04	8.91E+03
7/24/2018 15:53:51	45.80	41.90	43.90	47.00	41.10	59.40	43.80	46.10	41.40	47.00	41.10	5.01E+04	1.29E+04
7/24/2018 15:54:51	46.50	38.00	43.30	51.50	37.00	64.60	43.30	49.70	37.50	51.50	37.00	1.41E+05	5.01E+03
7/24/2018 15:55:51	42.60	37.50	40.20	46.60	36.70	58.20	40.10	45.60	37.00	46.60	36.70	4.57E+04	4.68E+03
7/24/2018 15:56:51	43.40	35.10	40.20	47.50	34.00	59.10	40.20	45.70	34.50	47.50	34.00	5.62E+04	2.51E+03
7/24/2018 15:57:51	43.20	35.10	40.60	55.60	33.90	80.30	40.50	48.40	34.40	55.60	33.90	3.63E+05	2.45E+03
7/24/2018 15:58:51	46.80	37.50	43.50	49.10	36.00	62.20	43.50	48.60	36.50	49.10	36.00	8.13E+04	3.98E+03
7/24/2018 15:59:51	44.00	36.80	40.00	47.30	35.90	58.20	39.90	45.60	36.30	47.30	35.90	5.37E+04	3.89E+03
7/24/2018 16:00:51	38.50	33.60	36.00	41.30	32.30	55.30	36.10	40.80	33.20	41.30	32.30	1.35E+04	1.70E+03
7/24/2018 16:01:51	41.20	34.60	39.10	48.10	32.40	59.60	38.90	46.60	33.00	48.10	32.40	6.46E+04	1.74E+03
7/24/2018 16:02:51	46.80	40.50	44.00	50.20	39.00	61.80	44.00	48.90	39.60	50.20	39.00	1.05E+05	7.94E+03
7/24/2018 16:03:51	45.90	39.30	43.20	48.90	38.10	60.70	43.10	47.40	38.60	48.90	38.10	7.76E+04	6.46E+03
7/24/2018 16:04:51	44.80	36.10	40.80	46.60	35.00	58.40	40.60	45.20	35.30	46.60	35.00	4.57E+04	3.16E+03
7/24/2018 16:05:51	45.20	37.10	41.40	49.80	36.40	59.70	41.20	47.80	36.80	49.80	36.40	9.55E+04	4.37E+03
7/24/2018 16:06:51	52.60	37.60	48.00	56.20	36.60	67.30	47.70	54.90	37.10	56.20	36.60	4.17E+05	4.57E+03

7/24/2018 16:07:51	43.50	38.90	42.10	54.30	37.50	64.50	43.10	54.70	37.80	54.30	37.50	2.69E+05	5.62E+03
7/24/2018 16:08:51	42.30	37.30	40.10	45.70	36.40	57.00	40.10	44.10	36.80	45.70	36.40	3.72E+04	4.37E+03
7/24/2018 16:09:51	43.80	38.00	41.40	46.00	36.50	57.50	41.30	44.50	37.20	46.00	36.50	3.98E+04	4.47E+03
7/24/2018 16:10:51	38.60	34.90	37.00	41.30	33.60	53.30	37.10	41.30	34.10	41.30	33.60	1.35E+04	2.29E+03
7/24/2018 16:11:51	44.00	36.90	40.40	46.40	35.80	58.60	40.20	45.30	36.40	46.40	35.80	4.37E+04	3.80E+03
7/24/2018 16:12:51	43.40	35.40	40.00	47.20	34.20	61.90	40.00	45.30	34.60	47.20	34.20	5.25E+04	2.63E+03
7/24/2018 16:13:51	40.80	32.20	37.10	46.30	31.20	57.00	37.00	44.50	31.70	46.30	31.20	4.27E+04	1.32E+03
7/24/2018 16:14:51	44.70	35.50	41.40	46.20	34.00	58.00	41.30	45.20	34.10	46.20	34.00	4.17E+04	2.51E+03
7/24/2018 16:15:51	38.60	35.70	37.30	40.70	34.90	54.80	37.20	39.80	35.30	40.70	34.90	1.17E+04	3.09E+03
7/24/2018 16:16:51	44.30	36.20	41.00	46.70	34.60	58.80	40.90	45.60	35.00	46.70	34.60	4.68E+04	2.88E+03
7/24/2018 16:17:51	45.00	35.10	42.00	50.70	33.80	63.10	41.90	49.00	34.50	50.70	33.80	1.17E+05	2.40E+03
7/24/2018 16:18:51	44.00	35.00	41.20	45.10	34.40	57.60	41.20	44.50	34.70	45.10	34.40	3.24E+04	2.75E+03
7/24/2018 16:19:51	42.20	33.70	39.00	44.10	32.90	57.60	39.00	43.30	33.20	44.10	32.90	2.57E+04	1.95E+03
7/24/2018 16:20:51	45.10	37.70	42.50	48.10	36.80	60.20	42.50	46.90	37.10	48.10	36.80	6.46E+04	4.79E+03
7/24/2018 16:21:51	42.80	34.60	39.80	48.40	33.30	58.40	39.70	46.00	33.80	48.40	33.30	6.92E+04	2.14E+03
7/24/2018 16:22:51	41.80	34.90	38.30	44.30	34.00	56.60	38.10	43.10	34.50	44.30	34.00	2.69E+04	2.51E+03
7/24/2018 16:23:51	48.20	41.30	45.60	50.10	40.60	62.10	45.50	48.60	41.00	50.10	40.60	1.02E+05	1.15E+04
7/24/2018 16:24:51	44.20	38.20	42.00	46.60	35.60	59.10	42.00	45.40	35.90	46.60	35.60	4.57E+04	3.63E+03
7/24/2018 16:25:51	48.80	36.50	44.80	51.00	35.50	64.60	44.70	50.40	35.80	51.00	35.50	1.26E+05	3.55E+03
7/24/2018 16:26:51	42.10	37.30	39.70	44.40	36.10	56.70	39.80	44.50	36.40	44.40	36.10	2.75E+04	4.07E+03
7/24/2018 16:27:51	43.50	34.80	40.10	46.20	34.10	58.40	40.00	45.20	34.30	46.20	34.10	4.17E+04	2.57E+03
7/24/2018 16:28:51	43.20	33.80	39.30	45.70	32.90	57.80	39.20	44.60	33.30	45.70	32.90	3.72E+04	1.95E+03
7/24/2018 16:29:51	44.90	38.30	42.50	50.90	35.70	63.00	42.40	49.20	35.50	50.90	35.70	1.23E+05	3.72E+03
7/24/2018 16:30:51	44.70	37.80	41.80	48.40	36.60	60.90	41.70	45.80	37.50	48.40	36.60	6.92E+04	4.57E+03
7/24/2018 16:31:51	46.50	35.90	43.10	51.20	35.00	62.30	42.90	48.80	35.40	51.20	35.00	1.32E+05	3.16E+03
7/24/2018 16:32:51	48.80	40.50	45.20	50.20	39.10	64.90	45.20	49.70	39.60	50.20	39.10	1.05E+05	8.13E+03
7/24/2018 16:33:51	47.00	37.00	43.50	49.60	35.50	62.00	43.40	48.50	36.00	49.60	35.50	9.12E+04	3.55E+03
7/24/2018 16:34:51	45.20	33.30	40.70	49.40	31.30	60.80	40.80	47.30	31.80	49.40	31.30	8.71E+04	1.35E+03
7/24/2018 16:35:51	45.00	32.70	41.60	47.50	31.60	69.30	41.50	46.50	31.80	47.50	31.60	5.62E+04	1.45E+03
7/24/2018 16:36:51	44.60	37.30	41.50	46.60	36.40	57.60	41.30	45.60	36.70	46.60	36.40	4.57E+04	4.37E+03
7/24/2018 16:37:51	46.50	37.50	43.10	50.50	35.70	62.70	43.10	48.40	36.10	50.50	35.70	1.12E+05	3.72E+03
7/24/2018 16:38:51	42.30	33.20	38.80	44.10	31.90	56.90	38.70	43.50	32.80	44.10	31.90	2.57E+04	1.55E+03
7/24/2018 16:39:51	40.60	33.00	37.60	42.60	31.70	54.90	37.50	41.80	32.50	42.60	31.70	1.82E+04	1.48E+03
7/24/2018 16:40:51	36.50	33.00	34.90	38.50	32.00	53.50	34.90	37.00	33.00	38.50	32.00	7.08E+03	1.58E+03
7/24/2018 16:41:51	42.80	35.20	39.90	46.70	33.40	59.10	39.80	45.50	34.10	46.70	33.40	4.68E+04	2.19E+03
7/24/2018 16:42:51	44.80	36.30	40.90	46.20	35.20	58.30	40.80	45.20	35.70	46.20	35.20	4.17E+04	3.31E+03
7/24/2018 16:43:51	43.30	35.70	40.50	46.60	34.20	57.90	40.50	45.00	34.70	46.60	34.20	4.57E+04	2.63E+03
7/24/2018 16:44:51	47.90	34.60	42.60	52.50	33.80	63.60	42.30	50.00	34.30	52.50	33.80	1.78E+05	2.40E+03
7/24/2018 16:45:51	45.50	37.60	41.80	49.00	36.20	60.50	42.00	48.20	36.60	49.00	36.20	7.94E+04	4.17E+03
7/24/2018 16:46:51	42.80	36.50	39.60	48.30	35.60	60.20	39.50	45.60	36.10	48.30	35.60	6.76E+04	3.63E+03
7/24/2018 16:47:51	44.90	39.70	42.30	47.60	38.50	59.40	42.20	46.70	38.90	47.60	38.50	5.75E+04	7.08E+03
7/24/2018 16:48:51	46.40	37.90	42.80	47.90	37.00	62.40	42.80	47.00	37.40	47.90	37.00	6.17E+04	5.01E+03
7/24/2018 16:49:51	42.90	36.90	39.70	47.10	35.80	60.30	39.60	46.00	36.30	47.10	35.80	5.13E+04	3.80E+03
7/24/2018 16:50:51	44.80	38.10	42.20	46.80	36.40	59.90	42.10	46.30	37.00	46.80	36.40	4.79E+04	4.37E+03
7/24/2018 16:51:51	45.60	37.80	42.70	49.40	36.80	61.70	42.40	47.80	37.20	49.40	36.80	8.71E+04	4.79E+03
7/24/2018 16:52:51	44.00	35.70	40.90	47.90	33.70	59.40	41.20	47.80	34.10	47.90	33.70	6.17E+04	2.34E+03
7/24/2018 16:53:51	42.60	34.80	40.30	49.50	33.70	60.90	39.90	47.80	34.10	49.50	33.70	8.91E+04	2.34E+03
7/24/2018 16:54:51	44.00	36.90	40.60	47.50	36.20	58.80	40.80	47.60	36.50	47.50	36.20	5.62E+04	4.17E+03
7/24/2018 16:55:51	42.90	34.20	40.00	46.20	33.10	61.00	39.90	44.10	33.50	46.20	33.10	4.17E+04	2.04E+03
7/24/2018 16:56:51	41.70	34.80	38.90	42.80	33.00	58.30	38.80	42.40	33.40	42.80	33.00	1.91E+04	2.00E+03
7/24/2018 16:57:51	39.90	35.00	37.40	45.90	33.60	58.30	37.00	44.30	34.50	45.90	33.60	3.89E+04	2.29E+03
7/24/2018 16:58:51	46.00	35.20	42.40	47.60	33.50	60.10	42.40	46.80	34.00	47.60	33.50	5.75E+04	2.24E+03

7/24/2018 16:59:51	38.00	32.60	35.20	41.30	31.40	54.60	35.00	40.00	32.00	41.30	31.40	1.35E+04	1.38E+03
7/24/2018 17:00:51	40.30	33.30	37.40	44.50	32.40	63.10	37.40	42.50	32.80	44.50	32.40	2.82E+04	1.74E+03
7/24/2018 17:01:51	49.10	39.70	44.60	52.40	37.20	63.60	44.50	50.90	37.30	52.40	37.20	1.74E+05	5.25E+03
7/24/2018 17:02:51	49.70	40.20	45.70	55.10	38.90	68.90	45.70	53.20	39.60	55.10	38.90	3.24E+05	7.76E+03
7/24/2018 17:03:51	43.40	34.40	40.50	46.40	33.70	72.90	40.50	44.80	33.90	46.40	33.70	4.37E+04	2.34E+03
7/24/2018 17:04:51	40.90	35.20	38.50	43.50	34.40	55.90	38.40	42.80	34.80	43.50	34.40	2.24E+04	2.75E+03
7/24/2018 17:05:51	45.30	38.30	42.30	48.30	37.00	75.10	42.20	45.70	37.20	48.30	37.00	6.76E+04	5.01E+03
7/24/2018 17:06:51	44.50	38.80	42.50	47.50	37.90	61.70	42.40	45.60	38.10	47.50	37.90	5.62E+04	6.17E+03
7/24/2018 17:07:51	43.90	35.80	41.20	54.80	34.50	80.40	41.30	48.20	35.10	54.80	34.50	3.02E+05	2.82E+03
7/24/2018 17:08:51	45.00	33.60	41.00	47.20	32.20	67.30	40.90	46.40	32.70	47.20	32.20	5.25E+04	1.66E+03
7/24/2018 17:09:51	40.90	32.10	38.20	44.50	31.30	56.50	38.00	42.20	31.60	44.50	31.30	2.82E+04	1.35E+03
7/24/2018 17:10:51	45.80	35.40	42.20	48.80	34.60	60.90	42.10	46.80	34.90	48.80	34.60	7.59E+04	2.88E+03
7/24/2018 17:11:51	45.00	32.70	41.20	47.30	31.80	58.30	41.20	45.80	32.10	47.30	31.80	5.37E+04	1.51E+03
7/24/2018 17:12:51	39.60	31.50	36.80	45.00	30.70	55.40	36.70	43.20	31.10	45.00	30.70	3.16E+04	1.17E+03
7/24/2018 17:13:51	41.20	30.00	36.40	45.30	29.00	57.50	36.40	44.10	29.50	45.30	29.00	3.39E+04	7.94E+02
7/24/2018 17:14:51	44.10	31.30	40.60	46.50	30.20	59.00	40.50	45.70	30.70	46.50	30.20	4.47E+04	1.05E+03
7/24/2018 17:15:51	41.80	32.10	38.20	46.10	30.70	57.50	38.10	44.60	31.30	46.10	30.70	4.07E+04	1.17E+03
7/24/2018 17:16:51	50.00	33.70	45.60	55.30	32.50	66.50	45.50	53.30	33.30	55.30	32.50	3.39E+05	1.78E+03
7/24/2018 17:17:51	48.60	33.20	44.20	51.40	31.70	63.00	44.20	50.00	32.40	51.40	31.70	1.38E+05	1.48E+03
7/24/2018 17:18:51	43.50	34.30	40.60	46.50	33.30	64.30	40.50	45.30	33.80	46.50	33.30	4.47E+04	2.14E+03
7/24/2018 17:19:51	43.50	36.90	41.10	46.50	35.80	58.60	41.00	44.90	36.20	46.50	35.80	4.47E+04	3.80E+03
7/24/2018 17:20:51	44.80	34.50	41.40	48.30	33.30	59.60	41.40	47.20	33.70	48.30	33.30	6.76E+04	2.14E+03
7/24/2018 17:21:51	45.70	33.10	42.10	48.00	32.30	58.90	41.90	46.30	32.50	48.00	32.30	6.31E+04	1.70E+03
7/24/2018 17:22:51	45.40	33.90	40.40	48.40	31.70	60.70	40.60	47.00	32.30	48.40	31.70	6.92E+04	1.48E+03
7/24/2018 17:23:51	46.00	33.80	41.90	49.20	33.10	60.70	41.90	47.80	33.30	49.20	33.10	8.32E+04	2.04E+03
7/24/2018 17:24:51	41.90	33.30	38.90	44.70	32.60	57.20	38.80	43.90	32.90	44.70	32.60	2.95E+04	1.82E+03
7/24/2018 17:25:51	39.60	32.30	35.90	42.90	31.60	54.30	35.90	41.30	31.90	42.90	31.60	1.95E+04	1.45E+03
7/24/2018 17:26:51	34.20	30.30	32.20	36.00	29.60	49.30	32.20	35.60	29.90	36.00	29.60	3.98E+03	9.12E+02
7/24/2018 17:27:51	42.40	31.80	38.90	44.40	29.60	56.30	38.80	43.50	29.90	44.40	29.60	2.75E+04	9.12E+02
7/24/2018 17:28:51	45.30	34.10	41.90	47.00	32.70	58.70	41.80	46.10	33.40	47.00	32.70	5.01E+04	1.86E+03
7/24/2018 17:29:51	43.30	33.30	39.70	46.30	32.10	58.00	39.70	45.30	32.90	46.30	32.10	4.27E+04	1.62E+03
7/24/2018 17:30:51	40.00	31.00	36.00	43.20	29.80	54.80	35.90	42.10	30.50	43.20	29.80	2.09E+04	9.55E+02
7/24/2018 17:31:51	37.60	30.50	34.60	41.90	29.80	54.50	34.50	40.80	30.10	41.90	29.80	1.55E+04	9.55E+02
7/24/2018 17:32:51	46.50	38.20	43.40	48.50	30.20	60.80	43.10	47.60	30.50	48.50	30.20	7.08E+04	1.05E+03
7/24/2018 17:33:51	45.40	32.40	39.70	48.90	31.50	59.90	39.70	47.60	32.00	48.90	31.50	7.76E+04	1.41E+03
7/24/2018 17:34:51	44.20	31.90	40.60	46.30	30.90	57.80	40.80	46.00	31.30	46.30	30.90	4.27E+04	1.23E+03
7/24/2018 17:35:51	43.00	31.60	37.80	45.90	30.50	58.10	37.70	45.00	30.80	45.90	30.50	3.89E+04	1.12E+03
7/24/2018 17:36:51	46.50	31.00	40.80	49.80	30.40	61.80	40.60	48.30	30.70	49.80	30.40	9.55E+04	1.10E+03
7/24/2018 17:37:51	48.60	34.60	44.30	55.30	33.30	66.10	44.10	53.50	33.70	55.30	33.30	3.39E+05	2.14E+03
7/24/2018 17:38:51	47.30	35.80	43.30	51.60	34.80	67.90	43.40	50.70	35.20	51.60	34.80	1.45E+05	3.02E+03
7/24/2018 17:39:51	45.50	29.90	39.80	46.90	29.00	59.10	40.00	46.30	29.40	46.90	29.00	4.90E+04	7.94E+02
7/24/2018 17:40:51	40.90	32.70	37.30	43.30	30.80	57.90	37.10	42.00	31.20	43.30	30.80	2.14E+04	1.20E+03
7/24/2018 17:41:51	43.60	33.40	39.60	45.60	32.60	57.80	39.60	44.60	33.00	45.60	32.60	3.63E+04	1.82E+03
7/24/2018 17:42:51	43.00	35.70	40.00	44.90	34.90	56.90	39.90	43.60	34.80	44.90	34.90	3.09E+04	3.09E+03
7/24/2018 17:43:51	42.60	33.00	37.70	45.10	31.80	56.90	37.70	43.90	32.20	45.10	31.80	3.24E+04	1.51E+03
7/24/2018 17:44:51	41.00	31.30	36.40	44.40	30.50	57.80	36.10	43.50	30.90	44.40	30.50	2.75E+04	1.12E+03
7/24/2018 17:45:51	44.40	32.60	40.20	46.90	31.80	58.50	40.20	46.00	32.20	46.90	31.80	4.90E+04	1.51E+03
7/24/2018 17:46:51	46.90	32.90	41.40	51.20	32.00	62.50	41.40	50.00	32.30	51.20	32.00	1.32E+05	1.58E+03
7/24/2018 17:47:51	39.80	32.40	35.90	42.70	31.90	54.30	35.80	41.50	32.10	42.70	31.90	1.86E+04	1.55E+03
7/24/2018 17:48:51	41.90	32.40	37.80	43.70	31.70	58.00	37.80	42.60	32.00	43.70	31.70	2.34E+04	1.48E+03
7/24/2018 17:49:51	44.90	35.80	40.80	46.10	34.90	58.30	40.80	45.40	35.20	46.10	34.90	4.07E+04	3.09E+03
7/24/2018 17:50:51	35.00	33.30	34.10	36.70	32.70	49.80	34.00	36.40	33.10	36.70	32.70	4.68E+03	1.86E+03

7/24/2018 17:51:51	42.20	35.20	39.10	44.60	34.10	57.10	39.00	43.40	35.00	44.60	34.10	2.88E+04	2.57E+03
7/24/2018 17:52:51	43.00	34.70	39.40	45.50	34.10	57.40	39.40	44.50	34.40	45.50	34.10	3.55E+04	2.57E+03
7/24/2018 17:53:51	41.40	36.00	38.90	44.70	35.00	57.30	38.70	43.10	35.40	44.70	35.00	2.95E+04	3.16E+03
7/24/2018 17:54:51	42.40	34.80	39.50	45.20	33.70	56.80	39.50	43.40	34.00	45.20	33.70	3.31E+04	2.34E+03
7/24/2018 17:55:51	42.90	38.90	41.10	46.80	37.10	58.80	41.10	45.40	37.90	46.80	37.10	4.79E+04	5.13E+03
7/24/2018 17:56:51	44.40	33.60	40.00	48.90	32.60	60.60	39.90	47.60	33.20	48.90	32.60	7.76E+04	1.82E+03
7/24/2018 17:57:51	44.30	37.30	41.40	48.80	36.10	61.20	41.20	47.00	36.50	48.80	36.10	7.59E+04	4.07E+03
7/24/2018 17:58:51	44.30	34.60	41.40	45.90	33.80	58.50	41.40	44.80	34.20	45.90	33.80	3.89E+04	2.40E+03
7/24/2018 17:59:51	42.50	33.70	38.30	45.60	32.90	62.80	38.30	44.00	33.20	45.60	32.90	3.63E+04	1.95E+03
7/24/2018 18:00:51	39.60	32.60	35.90	44.90	31.90	54.90	35.90	41.20	32.20	44.90	31.90	3.09E+04	1.55E+03
7/24/2018 18:01:51	39.30	32.40	35.50	42.60	31.70	55.40	35.30	41.80	31.90	42.60	31.70	1.82E+04	1.48E+03
7/24/2018 18:02:51	42.90	31.70	38.10	45.80	31.00	58.30	38.20	44.40	31.30	45.80	31.00	3.80E+04	1.26E+03
7/24/2018 18:03:51	36.20	30.20	33.50	40.00	29.60	52.80	33.40	37.90	29.90	40.00	29.60	1.00E+04	9.12E+02
7/24/2018 18:04:51	42.50	32.10	37.40	44.10	31.10	56.50	37.10	42.90	31.50	44.10	31.10	2.57E+04	1.29E+03
7/24/2018 18:05:51	40.40	31.00	36.10	43.60	29.90	57.70	36.20	42.60	30.50	43.60	29.90	2.29E+04	9.77E+02
7/24/2018 18:06:51	41.10	31.30	35.90	44.80	30.40	56.90	36.00	43.50	30.90	44.80	30.40	3.02E+04	1.10E+03
7/24/2018 18:07:51	43.40	32.70	39.40	46.30	30.90	58.10	39.30	44.70	32.20	46.30	30.90	4.27E+04	1.23E+03
7/24/2018 18:08:51	41.50	31.50	36.70	44.50	30.20	56.10	36.70	43.50	31.40	44.50	30.20	2.82E+04	1.05E+03
7/24/2018 18:09:51	35.40	31.20	33.40	38.30	30.30	53.00	33.30	35.40	31.20	38.30	30.30	6.76E+03	1.07E+03
7/24/2018 18:10:51	41.20	32.00	38.30	53.70	30.50	75.40	38.20	48.30	31.60	53.70	30.50	2.34E+05	1.12E+03
7/24/2018 18:11:51	43.90	33.50	40.30	46.30	32.30	57.50	40.20	44.90	33.30	46.30	32.30	4.27E+04	1.70E+03
7/24/2018 18:12:51	37.00	33.50	35.30	39.60	32.20	54.20	35.20	37.90	33.40	39.60	32.20	9.12E+03	1.66E+03
7/24/2018 18:13:51	39.80	34.50	37.30	41.20	33.40	53.70	37.30	40.50	34.30	41.20	33.40	1.32E+04	2.19E+03
7/24/2018 18:14:51	41.40	36.40	39.30	45.10	35.40	57.70	39.20	44.00	35.90	45.10	35.40	3.24E+04	3.47E+03
7/24/2018 18:15:51	41.60	36.70	39.40	43.60	33.90	56.10	39.30	42.50	35.10	43.60	33.90	2.29E+04	2.45E+03
7/24/2018 18:16:51	42.40	34.50	41.20	51.80	33.40	63.50	40.70	50.80	34.50	51.80	33.40	1.51E+05	2.19E+03
7/24/2018 18:17:51	45.50	33.60	41.20	49.30	31.70	60.30	41.60	49.30	32.70	49.30	31.70	8.51E+04	1.48E+03
7/24/2018 18:18:51	35.90	33.00	34.50	38.00	31.70	62.20	34.40	36.60	32.20	38.00	31.70	6.31E+03	1.48E+03
7/24/2018 18:19:51	34.20	31.90	33.00	36.00	31.00	55.30	32.90	34.60	31.70	36.00	31.00	3.98E+03	1.26E+03
7/24/2018 18:20:51	39.70	33.80	36.80	44.40	33.10	58.00	36.60	42.70	33.30	44.40	33.10	2.75E+04	2.04E+03
7/24/2018 18:21:51	40.90	32.30	36.70	46.00	31.60	58.90	36.80	44.40	32.00	46.00	31.60	3.98E+04	1.45E+03
7/24/2018 18:22:51	43.60	35.60	40.30	46.80	34.10	58.60	40.10	45.50	34.20	46.80	34.10	4.79E+04	2.57E+03
7/24/2018 18:23:51	41.70	35.50	38.30	45.50	34.70	58.10	38.40	43.90	35.00	45.50	34.70	3.55E+04	2.95E+03
7/24/2018 18:24:51	41.60	32.50	39.10	43.90	31.20	57.50	39.00	43.10	31.80	43.90	31.20	2.45E+04	1.32E+03
7/24/2018 18:25:51	34.10	31.50	32.90	41.10	30.80	51.80	32.80	35.30	31.20	41.10	30.80	1.29E+04	1.20E+03
7/24/2018 18:26:51	45.10	31.60	40.00	49.60	30.90	62.60	39.90	48.10	31.30	49.60	30.90	9.12E+04	1.23E+03
7/24/2018 18:27:51	32.50	31.00	31.80	38.10	30.50	49.80	31.80	34.10	30.80	38.10	30.50	6.46E+03	1.12E+03
7/24/2018 18:28:51	39.40	32.20	36.20	43.60	31.10	55.90	36.10	42.10	31.50	43.60	31.10	2.29E+04	1.29E+03
7/24/2018 18:29:51	41.70	32.80	38.50	43.80	31.70	56.00	38.40	43.00	32.40	43.80	31.70	2.40E+04	1.48E+03
7/24/2018 18:30:51	37.60	32.80	35.40	43.30	31.60	56.00	35.40	38.40	32.40	43.30	31.60	2.14E+04	1.45E+03
7/24/2018 18:31:51	44.50	35.90	41.00	46.50	33.40	58.90	40.90	45.80	34.30	46.50	33.40	4.47E+04	2.19E+03
7/24/2018 18:32:51	41.60	32.80	38.70	50.30	31.80	62.40	38.60	45.30	32.50	50.30	31.80	1.07E+05	1.51E+03
7/24/2018 18:33:51	49.20	32.60	44.50	53.30	31.80	65.80	44.50	51.20	32.00	53.30	31.80	2.14E+05	1.51E+03
7/24/2018 18:34:51	34.80	30.50	32.30	35.40	29.70	48.70	32.30	35.80	30.00	35.40	29.70	3.47E+03	9.33E+02
7/24/2018 18:35:51	34.00	30.80	32.30	36.10	29.80	58.80	32.10	35.70	30.10	36.10	29.80	4.07E+03	9.55E+02
7/24/2018 18:36:51	44.10	31.60	39.10	47.50	30.80	59.00	39.10	45.70	31.30	47.50	30.80	5.62E+04	1.20E+03
7/24/2018 18:37:51	40.30	31.00	35.70	45.30	30.20	57.30	35.30	43.60	30.60	45.30	30.20	3.39E+04	1.05E+03
7/24/2018 18:38:51	45.40	33.00	40.90	48.20	31.90	59.50	40.90	47.10	32.40	48.20	31.90	6.61E+04	1.55E+03
7/24/2018 18:39:51	33.50	31.70	32.90	41.00	30.70	52.10	32.70	38.80	31.10	41.00	30.70	1.26E+04	1.17E+03
7/24/2018 18:40:51	44.00	32.70	39.60	46.40	31.70	58.50	39.60	45.10	32.30	46.40	31.70	4.37E+04	1.48E+03
7/24/2018 18:41:51	39.50	31.70	36.40	44.30	30.80	56.30	36.30	41.00	31.60	44.30	30.80	2.69E+04	1.20E+03
7/24/2018 18:42:51	45.10	35.10	48.60	67.90	33.50	77.10	48.50	62.10	34.70	67.90	33.50	6.17E+06	2.24E+03

7/24/2018 18:43:51	46.80	34.60	42.00	49.60	31.80	60.50	42.00	48.40	33.10	49.60	31.80	9.12E+04	1.51E+03
7/24/2018 18:44:51	38.90	32.00	36.10	43.00	31.30	55.10	36.10	41.90	31.60	43.00	31.30	2.00E+04	1.35E+03
7/24/2018 18:45:51	42.90	33.70	39.70	46.50	32.30	58.90	39.50	45.30	32.80	46.50	32.30	4.47E+04	1.70E+03
7/24/2018 18:46:51	48.50	36.90	43.30	50.70	35.50	62.70	43.30	49.90	36.50	50.70	35.50	1.17E+05	3.55E+03
7/24/2018 18:47:51	40.80	34.20	37.70	44.50	32.90	56.40	37.60	43.30	33.50	44.50	32.90	2.82E+04	1.95E+03
7/24/2018 18:48:51	38.10	31.50	35.20	42.00	30.70	57.80	35.10	40.60	31.10	42.00	30.70	1.58E+04	1.17E+03
7/24/2018 18:49:51	39.00	33.30	43.90	61.50	32.40	72.30	41.80	58.20	32.60	61.50	32.40	1.41E+06	1.74E+03
7/24/2018 18:50:51	47.10	38.00	46.70	61.20	37.20	73.00	47.40	59.70	37.60	61.20	37.20	1.32E+06	5.25E+03
7/24/2018 18:51:51	43.40	37.70	40.90	46.20	35.80	62.70	40.80	44.90	37.30	46.20	35.80	4.17E+04	3.80E+03
7/24/2018 18:52:51	40.80	35.10	37.70	43.20	34.40	66.90	37.80	42.50	34.90	43.20	34.40	2.09E+04	2.75E+03
7/24/2018 18:53:51	44.30	35.20	40.70	46.50	33.90	61.50	40.50	45.40	34.30	46.50	33.90	4.47E+04	2.45E+03
7/24/2018 18:54:51	47.50	34.90	43.60	49.10	33.90	62.20	43.60	48.10	34.30	49.10	33.90	8.13E+04	2.45E+03
7/24/2018 18:55:51	39.60	32.90	35.90	40.60	32.00	55.20	36.10	42.20	32.40	40.60	32.00	1.15E+04	1.58E+03
7/24/2018 18:56:51	42.90	33.10	39.30	45.30	31.30	58.00	39.20	43.60	31.60	45.30	31.30	3.39E+04	1.35E+03
7/24/2018 18:57:51	39.80	31.80	36.70	42.20	31.20	55.80	36.60	41.40	31.40	42.20	31.20	1.66E+04	1.32E+03
7/24/2018 18:58:51	34.10	30.50	32.20	43.60	29.80	55.20	32.20	36.80	30.10	43.60	29.80	2.29E+04	9.55E+02
7/24/2018 18:59:51	44.20	33.50	40.40	48.30	31.00	59.60	40.30	47.00	31.30	48.30	31.00	6.76E+04	1.26E+03
7/24/2018 19:00:51	40.50	34.50	38.40	44.80	33.50	57.00	38.40	43.90	34.00	44.80	33.50	3.02E+04	2.24E+03
7/24/2018 19:01:51	40.60	33.70	36.80	42.90	33.00	54.70	36.60	42.10	33.50	42.90	33.00	1.95E+04	2.00E+03
7/24/2018 19:02:51	33.70	31.30	32.50	38.70	30.40	51.60	32.70	40.00	31.00	38.70	30.40	7.41E+03	1.10E+03
7/24/2018 19:03:51	41.60	32.40	37.20	45.90	31.20	61.40	37.10	44.40	31.60	45.90	31.20	3.89E+04	1.32E+03
7/24/2018 19:04:51	34.50	31.20	32.90	37.50	30.50	50.60	32.80	36.50	31.00	37.50	30.50	5.62E+03	1.12E+03
7/24/2018 19:05:51	37.60	30.70	34.20	41.00	30.10	56.40	34.10	39.60	30.40	41.00	30.10	1.26E+04	1.02E+03
7/24/2018 19:06:51	40.90	33.90	37.70	43.40	32.80	55.20	37.60	41.90	33.10	43.40	32.80	2.19E+04	1.91E+03
7/24/2018 19:07:51	37.40	31.80	34.70	38.40	30.80	54.60	34.60	37.90	31.50	38.40	30.80	6.92E+03	1.20E+03
7/24/2018 19:08:51	42.60	31.50	37.90	47.80	30.70	58.50	37.80	45.80	31.00	47.80	30.70	6.03E+04	1.17E+03
7/24/2018 19:09:51	34.30	31.60	32.90	38.60	30.50	51.10	32.80	36.10	31.10	38.60	30.50	7.24E+03	1.12E+03
7/24/2018 19:10:51	44.70	32.20	40.20	46.00	31.40	58.60	40.00	45.40	31.80	46.00	31.40	3.98E+04	1.38E+03
7/24/2018 19:11:51	43.90	32.80	40.60	50.00	31.90	61.90	40.70	48.20	32.20	50.00	31.90	1.00E+05	1.55E+03
7/24/2018 19:12:51	38.90	32.50	35.50	40.90	31.90	53.20	35.40	40.20	32.20	40.90	31.90	1.23E+04	1.55E+03
7/24/2018 19:13:51	45.90	35.20	42.10	55.20	32.90	81.60	42.10	47.10	33.90	55.20	32.90	3.31E+05	1.95E+03
7/24/2018 19:14:51	39.30	32.20	36.20	43.70	31.30	56.40	36.10	42.00	31.90	43.70	31.30	2.34E+04	1.35E+03
7/24/2018 19:15:51	32.80	31.50	32.10	34.80	30.90	50.60	32.00	33.80	31.20	34.80	30.90	3.02E+03	1.23E+03
7/24/2018 19:16:51	35.50	32.70	34.10	38.50	31.80	50.00	34.00	36.40	32.20	38.50	31.80	7.08E+03	1.51E+03
7/24/2018 19:17:51	43.90	35.10	40.40	46.40	33.50	58.40	40.30	45.50	34.30	46.40	33.50	4.37E+04	2.24E+03
7/24/2018 19:18:51	39.90	31.70	36.10	43.40	30.30	58.30	36.00	41.80	31.40	43.40	30.30	2.19E+04	1.07E+03
7/24/2018 19:19:51	34.60	31.30	33.20	38.10	30.30	50.80	33.20	35.00	30.60	38.10	30.30	6.46E+03	1.07E+03
7/24/2018 19:20:51	32.30	30.10	31.10	37.60	29.40	51.70	31.10	33.40	30.00	37.60	29.40	5.75E+03	8.71E+02
7/24/2018 19:21:51	31.80	30.50	31.10	34.90	29.80	49.10	31.00	33.10	30.10	34.90	29.80	3.09E+03	9.55E+02
7/24/2018 19:22:51	42.30	30.80	37.00	44.90	30.20	56.00	36.90	43.40	30.50	44.90	30.20	3.09E+04	1.05E+03
7/24/2018 19:23:51	44.20	32.30	39.20	51.10	31.20	75.60	39.20	46.50	31.70	51.10	31.20	1.29E+05	1.32E+03
7/24/2018 19:24:51	32.40	30.20	31.30	41.00	29.40	65.20	31.20	34.50	30.00	41.00	29.40	1.26E+04	8.71E+02
7/24/2018 19:25:51	33.90	30.90	49.00	75.50	30.10	101.10	48.90	66.50	30.40	75.50	30.10	3.55E+07	1.02E+03
7/24/2018 19:26:51	34.80	30.70	32.50	39.50	29.90	51.00	32.40	37.60	30.40	39.50	29.90	8.91E+03	9.77E+02
7/24/2018 19:27:51	39.10	32.40	35.90	44.40	31.20	54.70	35.90	40.60	31.70	44.40	31.20	2.75E+04	1.32E+03
7/24/2018 19:28:51	35.90	32.40	34.30	38.10	31.60	51.00	34.20	36.50	32.00	38.10	31.60	6.46E+03	1.45E+03
7/24/2018 19:29:51	36.20	31.80	34.10	40.30	30.90	51.20	34.10	37.10	31.50	40.30	30.90	1.07E+04	1.23E+03
7/24/2018 19:30:51	33.40	30.60	31.80	34.80	29.80	52.00	31.70	34.50	30.10	34.80	29.80	3.02E+03	9.55E+02
7/24/2018 19:31:51	42.80	32.40	39.20	45.00	31.10	60.90	39.10	44.00	31.60	45.00	31.10	3.16E+04	1.29E+03
7/24/2018 19:32:51	41.20	31.30	36.60	47.00	30.50	60.10	36.20	45.60	30.70	47.00	30.50	5.01E+04	1.12E+03
7/24/2018 19:33:51	42.00	31.50	37.20	44.00	30.40	55.70	37.30	43.10	30.90	44.00	30.40	2.51E+04	1.10E+03
7/24/2018 19:34:51	33.40	30.50	31.90	36.40	29.30	56.10	31.90	33.80	30.00	36.40	29.30	4.37E+03	8.51E+02

7/24/2018 19:35:51	34.50	29.80	32.00	38.70	29.10	58.80	31.80	36.50	29.70	38.70	29.10	7.41E+03	8.13E+02
7/24/2018 19:36:51	44.20	36.50	41.40	47.00	34.00	59.10	41.30	45.60	35.00	47.00	34.00	5.01E+04	2.51E+03
7/24/2018 19:37:51	37.10	32.40	34.90	41.50	30.60	52.30	34.80	38.30	31.70	41.50	30.60	1.41E+04	1.15E+03
7/24/2018 19:38:51	42.60	31.80	38.20	46.90	30.40	59.70	38.10	45.30	31.30	46.90	30.40	4.90E+04	1.10E+03
7/24/2018 19:39:51	43.20	33.60	39.10	47.60	32.50	58.80	39.00	46.60	32.70	47.60	32.50	5.75E+04	1.78E+03
7/24/2018 19:40:51	40.10	33.20	37.40	44.80	32.30	58.30	37.30	43.20	32.70	44.80	32.30	3.02E+04	1.70E+03
7/24/2018 19:41:51	42.60	33.60	39.30	48.40	32.40	59.60	39.30	45.00	32.80	48.40	32.40	6.92E+04	1.74E+03
7/24/2018 19:42:51	40.40	32.60	37.00	44.80	31.80	55.70	36.70	42.70	32.20	44.80	31.80	3.02E+04	1.51E+03
7/24/2018 19:43:51	44.50	34.80	41.10	48.50	33.20	60.90	41.10	47.10	33.60	48.50	33.20	7.08E+04	2.09E+03
7/24/2018 19:44:51	34.10	31.40	32.80	38.50	30.60	53.00	32.80	37.30	31.20	38.50	30.60	7.08E+03	1.15E+03
7/24/2018 19:45:51	36.00	32.40	34.30	37.90	31.40	58.30	34.20	36.60	32.00	37.90	31.40	6.17E+03	1.38E+03
7/24/2018 19:46:51	49.30	37.30	45.00	54.00	34.90	66.00	44.90	52.10	35.10	54.00	34.90	2.51E+05	3.09E+03
7/24/2018 19:47:51	38.10	33.00	35.80	39.30	31.80	55.90	35.80	38.70	32.20	39.30	31.80	8.51E+03	1.51E+03
7/24/2018 19:48:51	38.30	34.20	36.40	41.40	32.20	52.50	36.30	38.30	33.00	41.40	32.20	1.38E+04	1.66E+03
7/24/2018 19:49:51	39.70	33.70	37.20	43.50	32.30	56.70	37.10	42.40	32.90	43.50	32.30	2.24E+04	1.70E+03
7/24/2018 19:50:51	43.50	35.20	40.40	47.40	33.70	60.20	40.30	46.30	34.50	47.40	33.70	5.50E+04	2.34E+03
7/24/2018 19:51:51	44.90	34.00	40.80	47.50	32.70	58.70	40.70	46.20	33.30	47.50	32.70	5.62E+04	1.86E+03
7/24/2018 19:52:51	43.60	33.60	39.80	46.60	32.10	59.50	39.80	45.40	32.80	46.60	32.10	4.57E+04	1.62E+03
7/24/2018 19:53:51	42.80	34.00	39.20	45.40	33.10	56.90	39.10	44.20	33.70	45.40	33.10	3.47E+04	2.04E+03
7/24/2018 19:54:51	45.80	33.40	41.40	51.30	32.20	62.40	41.30	49.50	32.70	51.30	32.20	1.35E+05	1.66E+03
7/24/2018 19:55:51	36.20	31.90	33.80	41.10	30.90	52.20	33.50	39.70	31.50	41.10	30.90	1.29E+04	1.23E+03
7/24/2018 19:56:51	42.00	31.60	37.60	45.80	30.80	57.80	37.30	44.30	31.10	45.80	30.80	3.80E+04	1.20E+03
7/24/2018 19:57:51	43.10	31.50	38.10	46.90	30.50	59.10	38.20	45.50	31.00	46.90	30.50	4.90E+04	1.12E+03
7/24/2018 19:58:51	41.40	31.00	36.80	43.30	30.00	56.30	36.90	42.30	30.20	43.30	30.00	2.14E+04	1.00E+03
7/24/2018 19:59:51	44.00	29.90	38.50	47.90	29.40	60.10	38.50	45.60	29.60	47.90	29.40	6.17E+04	8.71E+02
7/24/2018 20:00:51	39.80	34.50	36.80	41.90	32.90	54.90	36.80	41.10	33.30	41.90	32.90	1.55E+04	1.95E+03
7/24/2018 20:01:51	35.90	32.70	34.70	42.10	32.00	53.30	34.50	40.70	32.30	42.10	32.00	1.62E+04	1.58E+03
7/24/2018 20:02:51	44.70	31.80	40.70	48.90	30.80	60.00	40.60	47.80	31.20	48.90	30.80	7.76E+04	1.20E+03
7/24/2018 20:03:51	39.10	32.80	36.70	45.10	31.50	67.10	36.70	42.70	32.00	45.10	31.50	3.24E+04	1.41E+03
7/24/2018 20:04:51	43.40	35.10	40.00	48.50	33.60	59.00	39.80	44.50	34.50	48.50	33.60	7.08E+04	2.29E+03
7/24/2018 20:05:51	45.60	33.60	42.20	50.70	32.80	63.20	42.10	49.20	33.00	50.70	32.80	1.17E+05	1.91E+03
7/24/2018 20:06:51	41.40	31.50	37.90	48.80	30.70	60.60	38.20	46.80	31.10	48.80	30.70	7.59E+04	1.17E+03
7/24/2018 20:07:51	33.20	30.90	31.70	38.50	30.40	54.80	31.70	34.20	30.60	38.50	30.40	7.08E+03	1.10E+03
7/24/2018 20:08:51	42.50	31.30	38.70	44.30	30.70	56.70	38.60	43.10	31.10	44.30	30.70	2.69E+04	1.17E+03
7/24/2018 20:09:51	43.80	35.10	40.70	47.10	34.10	59.90	40.60	45.80	34.30	47.10	34.10	5.13E+04	2.57E+03
7/24/2018 20:10:51	40.20	31.70	36.40	44.20	31.20	57.10	36.30	42.60	31.40	44.20	31.20	2.63E+04	1.32E+03
7/24/2018 20:11:51	41.80	32.30	37.00	44.70	31.50	57.40	37.10	43.60	31.80	44.70	31.50	2.95E+04	1.41E+03
7/24/2018 20:12:51	42.30	30.90	38.00	44.90	30.10	57.10	37.90	44.10	30.40	44.90	30.10	3.09E+04	1.02E+03
7/24/2018 20:13:51	41.20	32.10	36.90	46.60	30.50	58.10	36.80	44.50	30.80	46.60	30.50	4.57E+04	1.12E+03
7/24/2018 20:14:51	36.90	33.20	35.60	44.90	32.30	56.80	35.20	43.50	32.60	44.90	32.30	3.09E+04	1.70E+03
7/24/2018 20:15:51	43.30	34.10	40.40	46.10	33.20	57.00	40.50	44.10	33.60	46.10	33.20	4.07E+04	2.09E+03
7/24/2018 20:16:51	36.30	32.00	33.90	38.10	31.10	53.00	33.80	37.30	31.60	38.10	31.10	6.46E+03	1.29E+03
7/24/2018 20:17:51	32.90	31.00	31.90	35.00	30.00	57.20	31.80	33.10	30.70	35.00	30.00	3.16E+03	1.00E+03
7/24/2018 20:18:51	40.20	30.40	36.00	44.00	29.60	55.80	35.90	42.60	30.10	44.00	29.60	2.51E+04	9.12E+02
7/24/2018 20:19:51	34.40	31.00	32.90	35.20	30.00	53.70	32.90	34.50	30.30	35.20	30.00	3.31E+03	1.00E+03
7/24/2018 20:20:51	38.30	31.00	34.90	41.60	29.90	57.80	34.60	39.80	30.40	41.60	29.90	1.45E+04	9.77E+02
7/24/2018 20:21:51	39.40	33.40	36.50	44.00	31.90	54.60	36.50	42.40	32.90	44.00	31.90	2.51E+04	1.55E+03
7/24/2018 20:22:51	34.80	31.10	33.00	42.90	30.30	61.70	32.90	36.10	30.80	42.90	30.30	1.95E+04	1.07E+03
7/24/2018 20:23:51	43.90	32.80	39.80	48.50	31.40	61.50	39.70	46.90	32.00	48.50	31.40	7.08E+04	1.38E+03

Location 2														Sum ten	Sum ten		
														CountA:	71	3.57E+09	8.78E+06
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min		
7/23/2018 13:40:39	52.30	37.60	48.70	63.40	32.20	85.90	48.60	57.10	37.10	63.40	32.20	2.19E+06	1.66E+03	77.01	50.92		
7/23/2018 13:41:39	46.80	32.50	44.70	60.00	31.60	80.00	44.70	55.70	32.30	60.00	31.60	1.00E+06	1.45E+03				
7/23/2018 13:42:39	39.00	33.90	37.10	44.00	32.20	59.90	37.00	40.50	32.80	44.00	32.20	2.51E+04	1.66E+03				
7/23/2018 13:43:39	43.40	37.00	40.70	51.30	35.40	62.20	40.70	47.60	35.80	51.30	35.40	1.35E+05	3.47E+03				
7/23/2018 13:44:39	39.60	36.40	38.40	47.00	35.60	60.80	38.30	43.40	36.00	47.00	35.60	5.01E+04	3.63E+03				
7/23/2018 13:45:39	39.30	37.20	38.10	40.60	36.30	53.30	38.00	39.80	36.80	40.60	36.30	1.15E+04	4.27E+03				
7/23/2018 13:46:39	41.90	36.40	39.60	44.10	35.20	56.70	39.60	42.70	35.80	44.10	35.20	2.57E+04	3.31E+03				
7/23/2018 13:47:39	43.10	37.40	40.40	44.10	36.20	60.50	40.30	43.70	36.90	44.10	36.20	2.57E+04	4.17E+03				
7/23/2018 13:48:39	41.60	37.90	39.30	42.20	37.00	56.70	39.30	41.70	37.50	42.20	37.00	1.66E+04	5.01E+03				
7/23/2018 13:49:39	38.10	36.10	37.10	38.90	34.80	51.60	37.00	38.20	35.30	38.90	34.80	7.76E+03	3.02E+03				
7/23/2018 13:50:39	39.70	35.90	38.00	47.00	35.00	59.40	37.90	43.80	35.40	47.00	35.00	5.01E+04	3.16E+03				
7/23/2018 13:51:39	40.50	35.60	38.30	41.70	34.30	57.30	38.30	41.10	34.80	41.70	34.30	1.48E+04	2.69E+03				
7/23/2018 13:52:39	46.80	38.50	44.10	50.40	36.20	63.40	44.00	48.20	35.60	50.40	36.20	1.10E+05	4.17E+03				
7/23/2018 13:53:39	40.80	37.50	39.30	43.70	35.80	57.20	39.30	41.40	36.60	43.70	35.80	2.34E+04	3.80E+03				
7/23/2018 13:54:39	39.80	35.90	37.80	40.40	35.30	53.90	37.70	40.10	35.60	40.40	35.30	1.10E+04	3.39E+03				
7/23/2018 13:55:39	43.80	36.70	42.50	54.40	36.10	67.30	42.50	51.80	36.50	54.40	36.10	2.75E+05	4.07E+03				
7/23/2018 13:56:39	42.20	36.20	39.60	48.50	34.60	59.10	39.40	45.10	35.10	48.50	34.60	7.08E+04	2.88E+03				
7/23/2018 13:57:39	42.90	39.00	41.00	47.10	36.70	58.20	41.00	45.60	38.20	47.10	36.70	5.13E+04	4.68E+03				
7/23/2018 13:58:39	42.30	37.80	40.10	47.00	36.30	59.70	40.10	44.90	37.10	47.00	36.30	5.01E+04	4.27E+03				
7/23/2018 13:59:39	39.30	36.10	37.60	42.30	34.80	55.20	37.60	40.70	35.70	42.30	34.80	1.70E+04	3.02E+03				
7/23/2018 14:00:39	39.80	36.50	38.00	42.20	35.60	58.30	38.00	41.10	36.10	42.20	35.60	1.66E+04	3.63E+03				
7/23/2018 14:01:39	43.20	37.40	40.70	52.80	36.20	59.90	40.70	48.40	37.10	52.80	36.20	1.91E+05	4.17E+03				
7/23/2018 14:02:39	41.40	37.00	39.70	42.10	36.10	54.90	39.60	41.60	36.60	42.10	36.10	1.62E+04	4.07E+03				
7/23/2018 14:03:39	40.40	37.40	39.20	41.70	35.30	54.70	39.20	40.70	35.90	41.70	35.30	1.48E+04	3.39E+03				
7/23/2018 14:04:39	41.70	36.30	39.40	44.60	34.70	59.50	39.30	43.10	35.70	44.60	34.70	2.88E+04	2.95E+03				
7/23/2018 14:05:39	41.60	36.40	39.70	49.20	35.20	61.80	39.60	44.70	35.60	49.20	35.20	8.32E+04	3.31E+03				
7/23/2018 14:06:39	47.00	38.30	43.50	53.40	37.40	65.40	43.40	51.70	37.70	53.40	37.40	2.19E+05	5.50E+03				
7/23/2018 14:07:39	42.70	39.20	40.90	43.70	37.50	58.00	40.80	43.20	37.80	43.70	37.50	2.34E+04	5.62E+03				
7/23/2018 14:08:39	41.00	37.70	39.10	43.00	36.90	54.40	39.00	41.90	37.40	43.00	36.90	2.00E+04	4.90E+03				
7/23/2018 14:09:39	38.70	36.40	37.40	42.50	35.30	64.20	37.40	39.10	36.00	42.50	35.30	1.78E+04	3.39E+03				
7/23/2018 14:10:39	38.40	36.80	37.70	44.80	35.90	63.40	37.60	40.60	36.40	44.80	35.90	3.02E+04	3.89E+03				
7/23/2018 14:11:39	40.50	32.90	37.30	42.30	32.10	60.30	37.20	40.70	32.50	42.30	32.10	1.70E+04	1.62E+03				
7/23/2018 14:12:39	44.50	39.30	42.10	48.40	38.30	62.40	42.00	46.20	38.80	48.40	38.30	6.92E+04	6.76E+03				
7/23/2018 14:13:39	41.30	38.80	40.10	43.50	37.80	56.70	40.00	42.40	38.30	43.50	37.80	2.24E+04	6.03E+03				
7/23/2018 14:14:39	39.20	36.80	38.70	47.30	36.00	67.90	38.70	45.80	36.20	47.30	36.00	5.37E+04	3.98E+03				
7/23/2018 14:15:39	38.00	34.70	36.30	42.80	33.70	53.50	36.30	39.90	34.10	42.80	33.70	1.91E+04	2.34E+03				
7/23/2018 14:16:39	39.10	34.90	37.10	47.90	34.10	65.90	37.10	42.60	34.40	47.90	34.10	6.17E+04	2.57E+03				
7/23/2018 14:17:39	46.20	35.90	43.30	54.80	34.50	80.80	43.10	49.10	34.80	54.80	34.50	3.02E+05	2.82E+03				
7/23/2018 14:18:39	49.10	44.00	47.90	66.10	43.10	93.20	47.90	57.80	43.30	66.10	43.10	4.07E+06	2.04E+04				
7/23/2018 14:19:39	48.90	45.60	47.70	60.10	44.50	87.10	47.60	52.80	45.00	60.10	44.50	1.02E+06	2.82E+04				
7/23/2018 14:20:39	56.70	52.10	55.30	65.10	49.00	90.10	55.20	58.20	49.10	65.10	49.00	3.24E+06	7.94E+04				
7/23/2018 14:21:39	63.90	55.80	61.00	76.90	55.40	104.00	60.80	69.20	55.60	76.90	55.40	4.90E+07	3.47E+05				
7/23/2018 14:22:39	62.10	55.30	58.80	71.60	54.60	95.60	58.90	65.20	54.90	71.60	54.60	1.45E+07	2.88E+05				

7/23/2018 14:23:39	62.60	58.00	61.60	79.70	55.90	102.30	61.50	71.10	56.00	79.70	55.90	9.33E+07	3.89E+05
7/23/2018 14:24:39	67.60	61.80	65.90	83.80	60.90	106.80	65.80	75.00	61.60	83.80	60.90	2.40E+08	1.23E+06
7/23/2018 14:25:39	67.10	62.00	65.50	81.10	61.10	104.50	65.50	72.80	62.20	81.10	61.10	1.29E+08	1.29E+06
7/23/2018 14:26:39	64.80	58.70	63.50	80.60	58.10	102.00	63.40	72.60	58.50	80.60	58.10	1.15E+08	6.46E+05
7/23/2018 14:27:39	67.50	61.30	65.70	82.80	60.10	105.90	65.60	74.40	61.00	82.80	60.10	1.91E+08	1.02E+06
7/23/2018 14:28:39	64.40	55.90	64.00	86.70	55.40	113.70	64.00	78.10	55.90	86.70	55.40	4.68E+08	3.47E+05
7/23/2018 14:29:39	60.50	55.30	65.50	91.00	54.40	116.60	65.50	82.20	55.00	91.00	54.40	1.26E+09	2.75E+05
7/23/2018 14:30:39	63.70	57.10	63.60	85.20	55.70	107.50	63.50	76.20	56.00	85.20	55.70	3.31E+08	3.72E+05
7/23/2018 14:31:39	62.50	57.00	63.10	85.20	55.60	107.30	63.10	76.50	56.50	85.20	55.60	3.31E+08	3.63E+05
7/23/2018 14:32:39	63.00	59.50	62.50	80.70	58.40	106.00	62.50	72.50	59.00	80.70	58.40	1.17E+08	6.92E+05
7/23/2018 14:33:39	67.80	60.70	65.20	80.40	59.80	106.30	65.10	71.70	60.50	80.40	59.80	1.10E+08	9.55E+05
7/23/2018 14:34:39	66.20	53.10	63.30	79.80	51.50	107.70	63.30	72.20	52.80	79.80	51.50	9.55E+07	1.41E+05
7/23/2018 14:35:39	52.10	47.20	50.80	65.00	45.90	90.60	50.80	57.10	46.90	65.00	45.90	3.16E+06	3.89E+04
7/23/2018 14:36:39	47.70	44.20	46.40	58.50	43.10	88.70	46.40	51.80	43.60	58.50	43.10	7.08E+05	2.04E+04
7/23/2018 14:37:39	45.90	43.30	45.30	60.30	42.20	87.20	45.20	52.00	42.50	60.30	42.20	1.07E+06	1.66E+04
7/23/2018 14:38:39	44.90	41.50	43.50	53.40	40.70	78.70	43.60	47.20	41.00	53.40	40.70	2.19E+05	1.17E+04
7/23/2018 14:39:39	45.90	41.10	43.60	55.50	40.10	80.80	43.50	49.00	40.90	55.50	40.10	3.55E+05	1.02E+04
7/23/2018 14:40:39	42.20	38.70	40.40	52.20	38.10	77.20	40.40	45.70	38.40	52.20	38.10	1.66E+05	6.46E+03
7/23/2018 14:41:39	40.80	38.30	40.30	59.00	37.60	83.60	40.30	50.30	38.10	59.00	37.60	7.94E+05	5.75E+03
7/23/2018 14:42:39	38.90	37.50	38.10	41.50	36.60	65.70	38.10	38.90	37.10	41.50	36.60	1.41E+04	4.57E+03
7/23/2018 14:43:39	39.00	36.50	37.80	44.90	35.70	74.90	37.70	39.80	36.30	44.90	35.70	3.09E+04	3.72E+03
7/23/2018 14:44:39	40.30	36.90	39.00	42.70	35.70	62.50	38.90	40.90	36.10	42.70	35.70	1.86E+04	3.72E+03
7/23/2018 14:45:39	42.90	39.60	41.10	48.30	37.70	72.80	41.10	44.10	38.10	48.30	37.70	6.76E+04	5.89E+03
7/23/2018 14:46:39	42.30	39.80	41.30	52.70	38.60	75.80	41.20	46.00	39.30	52.70	38.60	1.86E+05	7.24E+03
7/23/2018 14:47:39	42.10	38.10	40.30	44.40	36.90	64.70	40.30	43.30	37.80	44.40	36.90	2.75E+04	4.90E+03
7/23/2018 14:48:39	45.80	38.50	42.00	53.80	37.50	78.10	41.90	47.10	38.00	53.80	37.50	2.40E+05	5.62E+03
7/23/2018 14:49:39	40.50	38.10	39.30	43.30	35.70	62.00	39.30	42.20	36.70	43.30	35.70	2.14E+04	3.72E+03
7/23/2018 14:50:39	51.60	36.70	47.50	63.20	35.20	78.10	47.40	56.40	36.50	63.20	35.20	2.09E+06	3.31E+03

Location 3													Sum ten	Sum ten		
													CountA:	1261	8.37E+09	4.93E+07
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min	
7/23/2018 15:00:39	57.40	39.10	53.70	71.30	37.30	94.10	53.50	63.20	38.20	71.30	37.30	1.35E+07	5.37E+03	68.22	45.92	
7/23/2018 15:01:39	55.10	39.90	50.60	67.60	38.60	86.30	50.70	59.40	39.90	67.60	38.60	5.75E+06	7.24E+03			
7/23/2018 15:02:39	57.50	43.80	53.80	68.60	39.50	90.90	53.80	61.60	44.80	68.60	39.50	7.24E+06	8.91E+03			
7/23/2018 15:03:39	47.30	39.70	46.00	61.30	37.10	82.70	45.90	55.20	39.20	61.30	37.10	1.35E+06	5.13E+03			
7/23/2018 15:04:39	43.00	36.20	43.40	61.00	34.80	79.90	42.80	54.30	36.60	61.00	34.80	1.26E+06	3.02E+03			
7/23/2018 15:05:39	52.80	38.20	48.70	62.20	35.10	80.60	48.80	57.40	38.60	62.20	35.10	1.66E+06	3.24E+03			
7/23/2018 15:06:39	53.90	36.60	51.10	67.80	34.10	84.60	51.10	61.10	36.10	67.80	34.10	6.03E+06	2.57E+03			
7/23/2018 15:07:39	46.70	36.80	44.00	58.70	35.10	83.00	44.00	52.00	36.20	58.70	35.10	7.41E+05	3.24E+03			
7/23/2018 15:08:39	37.70	35.00	36.40	40.80	33.90	68.10	36.30	37.80	34.50	40.80	33.90	1.20E+04	2.45E+03			
7/23/2018 15:09:39	40.70	36.90	38.90	44.90	35.40	69.90	38.80	41.80	36.10	44.90	35.40	3.09E+04	3.47E+03			
7/23/2018 15:10:39	49.70	41.80	46.20	52.80	40.10	71.50	46.10	51.80	40.20	52.80	40.10	1.91E+05	1.02E+04			
7/23/2018 15:11:39	50.70	47.00	49.30	51.90	45.60	72.20	49.20	50.80	45.90	51.90	45.60	1.55E+05	3.63E+04			
7/23/2018 15:12:39	53.50	46.80	49.70	56.90	46.10	72.90	49.70	56.00	46.50	56.90	46.10	4.90E+05	4.07E+04			
7/23/2018 15:13:39	51.20	47.70	49.20	60.00	46.70	83.30	49.10	52.80	47.10	60.00	46.70	1.00E+06	4.68E+04			
7/23/2018 15:14:39	53.10	49.60	51.50	54.90	48.80	77.10	51.50	54.10	49.30	54.90	48.80	3.09E+05	7.59E+04			
7/23/2018 15:15:39	56.00	49.70	53.10	60.60	48.90	84.60	53.00	58.60	49.20	60.60	48.90	1.15E+06	7.76E+04			
7/23/2018 15:16:39	49.60	47.70	48.80	59.80	46.40	84.40	48.80	52.80	47.10	59.80	46.40	9.55E+05	4.37E+04			
7/23/2018 15:17:39	53.10	48.20	51.00	68.00	47.00	93.20	50.90	59.50	47.60	68.00	47.00	6.31E+06	5.01E+04			
7/23/2018 15:18:39	50.60	46.90	48.70	56.70	46.10	78.50	48.70	51.70	46.60	56.70	46.10	4.68E+05	4.07E+04			
7/23/2018 15:19:39	48.50	46.30	48.10	67.30	44.90	92.80	48.00	58.70	45.90	67.30	44.90	5.37E+06	3.09E+04			
7/23/2018 15:20:39	49.30	45.30	50.10	72.90	43.80	96.10	50.00	64.20	45.00	72.90	43.80	1.95E+07	2.40E+04			
7/23/2018 15:21:39	51.70	47.90	50.10	53.10	47.00	78.60	50.00	52.20	47.40	53.10	47.00	2.04E+05	5.01E+04			
7/23/2018 15:22:39	54.90	47.10	51.70	60.70	45.80	82.90	51.70	55.30	46.60	60.70	45.80	1.17E+06	3.80E+04			
7/23/2018 15:23:39	53.60	45.70	49.70	56.50	44.40	74.50	49.70	55.90	45.40	56.50	44.40	4.47E+05	2.75E+04			
7/23/2018 15:24:39	53.90	45.90	50.50	63.10	44.40	87.40	50.50	56.20	45.30	63.10	44.40	2.04E+06	2.75E+04			
7/23/2018 15:25:39	50.10	44.50	47.10	59.90	43.50	85.20	47.10	52.40	44.10	59.90	43.50	9.77E+05	2.24E+04			
7/23/2018 15:26:39	56.40	43.40	51.90	70.20	42.30	94.30	51.70	62.80	42.80	70.20	42.30	1.05E+07	1.70E+04			
7/23/2018 15:27:39	51.00	45.10	51.30	74.90	43.30	98.90	51.20	65.80	44.70	74.90	43.30	3.09E+07	2.14E+04			
7/23/2018 15:28:39	50.20	43.40	46.90	57.00	42.30	78.60	46.80	51.20	43.10	57.00	42.30	5.01E+05	1.70E+04			
7/23/2018 15:29:39	53.00	45.40	49.50	61.00	43.10	85.20	49.50	54.40	43.60	61.00	43.10	1.26E+06	2.04E+04			
7/23/2018 15:30:39	46.10	41.50	43.40	48.40	40.50	73.40	43.40	46.50	41.30	48.40	40.50	6.92E+04	1.12E+04			
7/23/2018 15:31:39	42.50	40.20	41.40	46.50	38.50	72.80	41.40	42.80	39.50	46.50	38.50	4.47E+04	7.08E+03			
7/23/2018 15:32:39	43.10	38.90	40.80	47.40	37.60	73.60	40.80	43.90	38.90	47.40	37.60	5.50E+04	5.75E+03			
7/23/2018 15:33:39	40.70	37.80	39.30	49.60	36.60	72.00	39.20	43.30	37.50	49.60	36.60	9.12E+04	4.57E+03			
7/23/2018 15:34:39	43.20	38.90	41.80	52.90	37.60	71.60	41.20	51.00	38.40	52.90	37.60	1.95E+05	5.75E+03			
7/23/2018 15:35:39	50.80	40.40	46.50	53.70	38.80	73.70	46.60	52.90	39.40	53.70	38.80	2.34E+05	7.59E+03			
7/23/2018 15:36:39	43.80	39.40	42.00	51.50	38.00	74.40	41.90	44.80	38.80	51.50	38.00	1.41E+05	6.31E+03			
7/23/2018 15:37:39	43.90	37.40	40.70	48.00	35.70	70.40	40.70	43.40	37.70	48.00	35.70	6.31E+04	3.72E+03			
7/23/2018 15:38:39	42.50	36.30	40.00	47.50	34.50	71.40	39.90	43.90	35.60	47.50	34.50	5.62E+04	2.82E+03			
7/23/2018 15:39:39	39.70	35.00	37.40	44.00	33.80	69.70	37.30	41.00	34.80	44.00	33.80	2.51E+04	2.40E+03			
7/23/2018 15:40:39	40.30	36.60	38.40	45.50	35.10	72.20	38.30	40.70	35.90	45.50	35.10	3.55E+04	3.24E+03			
7/23/2018 15:41:39	44.40	36.90	41.20	48.70	35.20	70.20	41.20	47.20	36.90	48.70	35.20	7.41E+04	3.31E+03			
7/23/2018 15:42:39	38.70	34.00	36.20	44.70	32.70	72.40	36.10	38.60	33.90	44.70	32.70	2.95E+04	1.86E+03			

7/23/2018 15:43:39	41.10	34.90	37.70	44.80	34.00	69.70	37.60	40.50	35.40	44.80	34.00	3.02E+04	2.51E+03
7/23/2018 15:44:39	36.70	33.80	35.60	47.90	32.60	75.20	35.60	40.30	34.10	47.90	32.60	6.17E+04	1.82E+03
7/23/2018 15:45:39	40.30	34.60	37.60	48.40	33.40	72.70	37.40	41.80	34.40	48.40	33.40	6.92E+04	2.19E+03
7/23/2018 15:46:39	39.30	35.60	37.40	42.80	34.40	70.90	37.50	40.40	35.60	42.80	34.40	1.91E+04	2.75E+03
7/23/2018 15:47:39	38.80	34.90	37.00	44.10	33.00	67.90	36.90	39.50	34.50	44.10	33.00	2.57E+04	2.00E+03
7/23/2018 15:48:39	37.60	33.80	35.60	43.20	32.40	72.60	35.60	38.60	34.00	43.20	32.40	2.09E+04	1.74E+03
7/23/2018 15:49:39	37.10	33.30	35.20	39.90	31.70	64.70	35.20	36.90	33.20	39.90	31.70	9.77E+03	1.48E+03
7/23/2018 15:50:39	38.30	33.50	36.30	46.10	31.70	72.30	36.20	40.20	33.40	46.10	31.70	4.07E+04	1.48E+03
7/23/2018 15:51:39	44.10	35.40	39.70	49.20	34.50	70.70	39.40	46.90	35.00	49.20	34.50	8.32E+04	2.82E+03
7/23/2018 15:52:39	39.80	34.60	37.10	44.10	33.70	67.70	37.40	45.00	34.40	44.10	33.70	2.57E+04	2.34E+03
7/23/2018 15:53:39	40.80	34.20	37.70	47.10	33.00	71.90	37.30	44.90	33.90	47.10	33.00	5.13E+04	2.00E+03
7/23/2018 15:54:39	49.20	36.50	44.20	51.50	35.60	75.90	44.20	50.40	36.20	51.50	35.60	1.41E+05	3.63E+03
7/23/2018 15:55:39	35.40	33.30	34.30	41.40	32.60	71.20	34.30	36.30	33.20	41.40	32.60	1.38E+04	1.82E+03
7/23/2018 15:56:39	36.90	34.30	36.00	52.80	33.40	75.40	36.00	44.30	34.00	52.80	33.40	1.91E+05	2.19E+03
7/23/2018 15:57:39	36.60	34.60	35.70	49.60	33.50	75.80	35.60	41.70	34.20	49.60	33.50	9.12E+04	2.24E+03
7/23/2018 15:58:39	35.20	33.30	34.20	39.50	32.20	66.00	34.20	35.80	32.60	39.50	32.20	8.91E+03	1.66E+03
7/23/2018 15:59:39	35.50	33.50	34.60	40.20	32.10	64.40	34.50	35.60	32.90	40.20	32.10	1.05E+04	1.62E+03
7/23/2018 16:00:39	36.80	34.20	35.40	41.30	33.40	68.60	35.40	37.80	34.00	41.30	33.40	1.35E+04	2.19E+03
7/23/2018 16:01:39	39.10	35.40	37.20	42.70	34.70	66.50	37.10	40.00	35.00	42.70	34.70	1.86E+04	2.95E+03
7/23/2018 16:02:39	54.30	39.60	49.80	55.50	37.80	72.20	49.70	54.90	37.50	55.50	37.80	3.55E+05	6.03E+03
7/23/2018 16:03:39	51.70	44.90	49.50	53.00	42.30	69.90	49.60	52.20	42.70	53.00	42.30	2.00E+05	1.70E+04
7/23/2018 16:04:39	55.10	41.90	52.50	55.40	41.10	76.30	52.30	55.10	41.40	55.40	41.10	3.47E+05	1.29E+04
7/23/2018 16:05:39	58.50	54.00	56.10	58.90	53.10	80.10	56.00	58.50	53.40	58.90	53.10	7.76E+05	2.04E+05
7/23/2018 16:06:39	61.80	52.60	58.40	62.40	51.20	82.40	58.40	62.10	51.70	62.40	51.20	1.74E+06	1.32E+05
7/23/2018 16:07:39	56.40	47.40	53.80	75.00	46.00	98.40	53.80	66.30	46.80	75.00	46.00	3.16E+07	3.98E+04
7/23/2018 16:08:39	51.40	45.10	48.60	57.70	43.90	79.50	48.60	53.70	44.60	57.70	43.90	5.89E+05	2.45E+04
7/23/2018 16:09:39	52.30	45.90	49.90	68.10	44.80	94.50	49.90	59.70	45.20	68.10	44.80	6.46E+06	3.02E+04
7/23/2018 16:10:39	57.30	44.80	53.00	71.60	43.50	94.50	52.90	63.10	44.10	71.60	43.50	1.45E+07	2.24E+04
7/23/2018 16:11:39	47.80	42.70	44.90	50.80	41.90	74.90	44.70	48.00	42.40	50.80	41.90	1.20E+05	1.55E+04
7/23/2018 16:12:39	48.70	40.50	45.10	52.40	39.10	76.10	45.10	49.90	39.80	52.40	39.10	1.74E+05	8.13E+03
7/23/2018 16:13:39	45.00	38.90	42.90	52.20	37.70	69.90	42.80	50.70	38.60	52.20	37.70	1.66E+05	5.89E+03
7/23/2018 16:14:39	44.40	39.40	42.30	52.30	37.90	74.20	42.20	46.00	38.60	52.30	37.90	1.70E+05	6.17E+03
7/23/2018 16:15:39	49.50	37.10	45.20	52.40	36.20	75.70	45.20	50.80	36.90	52.40	36.20	1.74E+05	4.17E+03
7/23/2018 16:16:39	41.10	37.20	38.90	44.20	36.20	67.40	38.80	42.00	36.90	44.20	36.20	2.63E+04	4.17E+03
7/23/2018 16:17:39	45.40	38.80	42.60	48.10	37.90	71.50	42.50	45.80	38.40	48.10	37.90	6.46E+04	6.17E+03
7/23/2018 16:18:39	39.80	37.30	38.50	42.70	36.10	69.70	38.40	41.50	36.90	42.70	36.10	1.86E+04	4.07E+03
7/23/2018 16:19:39	43.80	40.00	42.10	46.50	39.00	68.90	42.00	45.40	39.50	46.50	39.00	4.47E+04	7.94E+03
7/23/2018 16:20:39	43.90	40.00	41.90	45.40	38.80	71.10	41.90	44.50	39.30	45.40	38.80	3.47E+04	7.59E+03
7/23/2018 16:21:39	46.30	37.20	42.60	50.10	36.20	73.10	42.50	48.40	36.80	50.10	36.20	1.02E+05	4.17E+03
7/23/2018 16:22:39	46.20	40.50	44.00	47.60	38.20	74.10	44.00	46.50	38.70	47.60	38.20	5.75E+04	6.61E+03
7/23/2018 16:23:39	49.70	37.80	45.40	50.50	37.10	70.00	45.20	50.10	37.60	50.50	37.10	1.12E+05	5.13E+03
7/23/2018 16:24:39	48.50	38.90	45.50	54.60	37.50	79.90	45.50	49.40	38.30	54.60	37.50	2.88E+05	5.62E+03
7/23/2018 16:25:39	45.90	40.90	43.50	48.30	39.80	72.10	43.50	47.40	40.50	48.30	39.80	6.76E+04	9.55E+03
7/23/2018 16:26:39	44.10	40.40	42.40	49.60	39.70	69.60	42.20	48.60	40.00	49.60	39.70	9.12E+04	9.33E+03
7/23/2018 16:27:39	45.10	37.30	41.60	47.80	36.30	68.40	41.80	47.90	36.80	47.80	36.30	6.03E+04	4.27E+03
7/23/2018 16:28:39	40.70	36.40	38.30	45.10	35.20	69.00	38.20	41.90	36.00	45.10	35.20	3.24E+04	3.31E+03
7/23/2018 16:29:39	39.50	36.70	38.10	43.00	35.90	69.80	38.10	40.20	36.50	43.00	35.90	2.00E+04	3.89E+03

7/23/2018 16:30:39	38.20	33.70	36.00	42.30	32.50	69.30	36.00	38.40	33.10	42.30	32.50	1.70E+04	1.78E+03
7/23/2018 16:31:39	35.50	33.10	34.40	40.30	32.30	66.50	34.30	36.70	32.70	40.30	32.30	1.07E+04	1.70E+03
7/23/2018 16:32:39	37.90	35.00	36.30	40.90	34.00	68.50	36.20	38.70	34.50	40.90	34.00	1.23E+04	2.51E+03
7/23/2018 16:33:39	42.60	34.10	39.10	47.50	32.70	70.80	39.10	45.30	33.70	47.50	32.70	5.62E+04	1.86E+03
7/23/2018 16:34:39	41.20	34.00	38.30	44.10	32.60	69.00	38.20	42.70	33.20	44.10	32.60	2.57E+04	1.82E+03
7/23/2018 16:35:39	36.60	32.70	34.70	41.00	31.90	65.90	34.70	36.70	32.70	41.00	31.90	1.26E+04	1.55E+03
7/23/2018 16:36:39	38.20	33.50	35.90	40.30	32.00	64.90	35.70	38.30	32.80	40.30	32.00	1.07E+04	1.58E+03
7/23/2018 16:37:39	40.00	36.00	37.90	43.60	35.00	71.70	37.80	41.00	35.40	43.60	35.00	2.29E+04	3.16E+03
7/23/2018 16:38:39	38.10	34.60	36.40	40.50	33.80	66.50	36.20	39.30	34.30	40.50	33.80	1.12E+04	2.40E+03
7/23/2018 16:39:39	48.60	39.60	45.00	52.00	36.90	70.20	44.90	51.00	37.60	52.00	36.90	1.58E+05	4.90E+03
7/23/2018 16:40:39	42.10	33.70	38.90	46.40	32.60	71.80	38.90	43.20	33.40	46.40	32.60	4.37E+04	1.82E+03
7/23/2018 16:41:39	42.50	36.70	40.10	44.50	33.30	64.50	40.00	43.60	33.90	44.50	33.30	2.82E+04	2.14E+03
7/23/2018 16:42:39	43.10	37.50	40.30	44.50	34.90	70.30	40.30	43.90	35.80	44.50	34.90	2.82E+04	3.09E+03
7/23/2018 16:43:39	35.50	32.00	33.70	40.20	31.30	67.20	33.60	36.90	32.00	40.20	31.30	1.05E+04	1.35E+03
7/23/2018 16:44:39	41.80	35.90	38.70	46.30	34.80	72.40	38.60	42.80	35.10	46.30	34.80	4.27E+04	3.02E+03
7/23/2018 16:45:39	40.30	35.00	37.90	42.50	34.20	68.80	37.80	41.00	34.40	42.50	34.20	1.78E+04	2.63E+03
7/23/2018 16:46:39	40.10	36.10	37.50	43.80	35.40	67.40	37.50	41.30	35.80	43.80	35.40	2.40E+04	3.47E+03
7/23/2018 16:47:39	35.30	33.40	34.20	39.10	32.50	66.20	34.20	36.10	32.90	39.10	32.50	8.13E+03	1.78E+03
7/23/2018 16:48:39	35.70	33.20	34.30	38.10	32.30	62.90	34.30	36.20	32.90	38.10	32.30	6.46E+03	1.70E+03
7/23/2018 16:49:39	35.90	33.10	34.80	40.90	31.70	68.20	34.80	36.40	32.80	40.90	31.70	1.23E+04	1.48E+03
7/23/2018 16:50:39	40.90	33.40	38.20	43.50	32.00	66.10	38.20	42.10	33.00	43.50	32.00	2.24E+04	1.58E+03
7/23/2018 16:51:39	35.20	33.00	34.00	37.90	31.90	62.40	34.00	35.20	32.80	37.90	31.90	6.17E+03	1.55E+03
7/23/2018 16:52:39	35.30	32.50	33.90	37.70	31.50	62.70	33.80	36.60	32.50	37.70	31.50	5.89E+03	1.41E+03
7/23/2018 16:53:39	42.20	34.00	38.00	43.80	32.60	62.80	38.00	43.30	33.60	43.80	32.60	2.40E+04	1.82E+03
7/23/2018 16:54:39	38.60	33.10	36.70	41.70	32.20	66.60	36.50	39.00	32.80	41.70	32.20	1.48E+04	1.66E+03
7/23/2018 16:55:39	40.20	35.40	37.80	41.90	33.60	68.90	37.80	40.50	35.20	41.90	33.60	1.55E+04	2.29E+03
7/23/2018 16:56:39	43.60	35.30	40.40	45.10	34.30	64.00	40.20	44.70	34.90	45.10	34.30	3.24E+04	2.69E+03
7/23/2018 16:57:39	47.90	42.60	45.60	48.60	41.90	65.30	45.50	48.10	42.20	48.60	41.90	7.24E+04	1.55E+04
7/23/2018 16:58:39	52.10	42.60	47.20	53.00	41.40	73.40	47.10	52.60	41.90	53.00	41.40	2.00E+05	1.38E+04
7/23/2018 16:59:39	43.80	38.70	41.10	44.90	37.60	65.50	41.10	44.40	37.80	44.90	37.60	3.09E+04	5.75E+03
7/23/2018 17:00:39	37.90	34.60	35.80	43.40	33.60	70.80	35.90	39.60	34.40	43.40	33.60	2.19E+04	2.29E+03
7/23/2018 17:01:39	43.70	37.20	40.80	46.70	35.10	68.80	40.70	45.80	34.90	46.70	35.10	4.68E+04	3.24E+03
7/23/2018 17:02:39	42.00	39.30	40.50	44.50	38.50	70.40	40.50	42.30	38.80	44.50	38.50	2.82E+04	7.08E+03
7/23/2018 17:03:39	41.60	38.10	40.20	42.40	37.50	64.20	40.10	41.70	37.70	42.40	37.50	1.74E+04	5.62E+03
7/23/2018 17:04:39	43.10	38.10	40.90	44.10	37.40	69.90	40.80	43.20	37.70	44.10	37.40	2.57E+04	5.50E+03
7/23/2018 17:05:39	37.90	34.60	36.10	40.80	33.90	64.70	36.10	38.10	34.40	40.80	33.90	1.20E+04	2.45E+03
7/23/2018 17:06:39	42.90	36.20	39.60	48.30	35.50	73.20	39.50	45.70	36.00	48.30	35.50	6.76E+04	3.55E+03
7/23/2018 17:07:39	50.70	37.90	46.00	57.70	36.60	69.80	46.00	53.60	37.50	57.70	36.60	5.89E+05	4.57E+03
7/23/2018 17:08:39	38.90	34.20	36.50	43.20	33.10	64.60	36.40	41.20	33.60	43.20	33.10	2.09E+04	2.04E+03
7/23/2018 17:09:39	46.90	34.70	43.50	52.40	33.20	64.60	43.40	48.60	34.50	52.40	33.20	1.74E+05	2.09E+03
7/23/2018 17:10:39	38.00	35.90	37.10	39.10	34.10	61.80	37.00	38.30	34.50	39.10	34.10	8.13E+03	2.57E+03
7/23/2018 17:11:39	39.10	35.20	37.20	43.80	34.10	70.50	37.20	40.20	34.50	43.80	34.10	2.40E+04	2.57E+03
7/23/2018 17:12:39	37.60	34.80	36.30	40.00	34.10	64.00	36.20	37.80	34.60	40.00	34.10	1.00E+04	2.57E+03
7/23/2018 17:13:39	41.60	33.70	37.80	42.70	32.90	65.50	37.70	41.90	33.30	42.70	32.90	1.86E+04	1.95E+03
7/23/2018 17:14:39	36.70	33.30	34.90	38.10	32.50	63.00	34.80	37.70	32.90	38.10	32.50	6.46E+03	1.78E+03
7/23/2018 17:15:39	52.50	37.20	49.10	54.80	36.20	79.50	48.90	53.10	36.40	54.80	36.20	3.02E+05	4.17E+03
7/23/2018 17:16:39	52.70	42.50	48.60	53.10	41.30	74.20	48.60	52.70	41.70	53.10	41.30	2.04E+05	1.35E+04

7/23/2018 17:17:39	48.60	40.90	46.40	51.20	38.90	72.50	46.50	49.40	40.60	51.20	38.90	1.32E+05	7.76E+03
7/23/2018 17:18:39	44.90	38.50	42.40	49.80	37.60	72.40	42.40	47.70	38.20	49.80	37.60	9.55E+04	5.75E+03
7/23/2018 17:19:39	44.00	40.00	43.40	54.30	39.00	71.80	42.70	52.90	39.50	54.30	39.00	2.69E+05	7.94E+03
7/23/2018 17:20:39	48.20	37.40	44.40	53.20	35.90	73.20	44.80	52.90	36.50	53.20	35.90	2.09E+05	3.89E+03
7/23/2018 17:21:39	39.70	35.90	37.90	48.70	35.10	74.00	37.90	42.10	35.60	48.70	35.10	7.41E+04	3.24E+03
7/23/2018 17:22:39	46.80	37.80	42.80	50.50	36.60	73.50	42.70	49.00	37.50	50.50	36.60	1.12E+05	4.57E+03
7/23/2018 17:23:39	40.20	35.10	38.00	47.40	33.00	70.10	38.00	41.60	34.50	47.40	33.00	5.50E+04	2.00E+03
7/23/2018 17:24:39	45.90	41.00	43.80	49.40	38.60	68.50	43.60	48.30	38.70	49.40	38.60	8.71E+04	7.24E+03
7/23/2018 17:25:39	46.60	37.50	43.30	52.00	35.20	74.20	43.40	48.70	36.00	52.00	35.20	1.58E+05	3.31E+03
7/23/2018 17:26:39	40.80	34.60	38.00	46.10	33.40	67.60	37.90	41.50	34.60	46.10	33.40	4.07E+04	2.19E+03
7/23/2018 17:27:39	45.50	36.00	41.60	47.80	34.40	65.00	41.30	46.00	35.50	47.80	34.40	6.03E+04	2.75E+03
7/23/2018 17:28:39	44.70	37.10	41.60	48.20	36.00	65.50	41.70	46.20	36.70	48.20	36.00	6.61E+04	3.98E+03
7/23/2018 17:29:39	39.90	34.80	37.80	47.90	34.00	68.30	37.90	43.70	34.60	47.90	34.00	6.17E+04	2.51E+03
7/23/2018 17:30:39	36.80	34.00	35.70	43.70	33.20	64.10	35.70	38.70	33.60	43.70	33.20	2.34E+04	2.09E+03
7/23/2018 17:31:39	36.60	32.20	34.80	46.00	30.70	62.90	34.80	40.70	31.80	46.00	30.70	3.98E+04	1.17E+03
7/23/2018 17:32:39	42.60	31.00	37.60	49.30	30.20	73.60	37.40	46.00	30.70	49.30	30.20	8.51E+04	1.05E+03
7/23/2018 17:33:39	40.40	35.10	37.70	44.80	34.10	66.30	37.70	42.90	34.60	44.80	34.10	3.02E+04	2.57E+03
7/23/2018 17:34:39	40.30	32.80	36.80	42.90	32.10	66.90	36.80	41.30	32.50	42.90	32.10	1.95E+04	1.62E+03
7/23/2018 17:35:39	36.60	31.80	34.10	40.40	30.90	68.20	34.00	36.90	31.50	40.40	30.90	1.10E+04	1.23E+03
7/23/2018 17:36:39	38.50	34.40	36.70	39.90	33.70	59.90	36.60	39.10	34.00	39.90	33.70	9.77E+03	2.34E+03
7/23/2018 17:37:39	34.60	32.00	33.20	39.40	31.40	63.90	33.20	36.50	31.80	39.40	31.40	8.71E+03	1.38E+03
7/23/2018 17:38:39	38.90	31.70	35.70	44.90	31.00	66.80	35.70	40.10	31.50	44.90	31.00	3.09E+04	1.26E+03
7/23/2018 17:39:39	42.90	30.90	37.60	46.50	30.10	69.30	37.40	44.20	30.70	46.50	30.10	4.47E+04	1.02E+03
7/23/2018 17:40:39	38.60	31.20	36.00	53.50	30.30	68.30	36.10	46.00	31.10	53.50	30.30	2.24E+05	1.07E+03
7/23/2018 17:41:39	37.70	32.50	37.60	54.80	30.70	66.20	37.50	47.50	31.20	54.80	30.70	3.02E+05	1.17E+03
7/23/2018 17:42:39	39.40	33.70	36.90	46.60	32.80	59.80	36.90	41.00	33.30	46.60	32.80	4.57E+04	1.91E+03
7/23/2018 17:43:39	39.90	34.30	36.80	46.10	33.20	64.00	36.80	43.80	33.90	46.10	33.20	4.07E+04	2.09E+03
7/23/2018 17:44:39	38.40	33.60	39.90	58.60	32.20	70.60	39.40	51.30	33.10	58.60	32.20	7.24E+05	1.66E+03
7/23/2018 17:45:39	43.70	32.50	44.70	61.00	31.20	72.20	44.70	53.80	34.10	61.00	31.20	1.26E+06	1.32E+03
7/23/2018 17:46:39	41.80	33.40	41.50	57.70	32.10	70.00	41.50	50.30	33.40	57.70	32.10	5.89E+05	1.62E+03
7/23/2018 17:47:39	41.40	32.80	39.10	53.90	31.10	71.20	39.10	46.90	32.30	53.90	31.10	2.45E+05	1.29E+03
7/23/2018 17:48:39	37.80	31.10	35.50	46.80	30.10	66.20	35.50	43.20	30.90	46.80	30.10	4.79E+04	1.02E+03
7/23/2018 17:49:39	36.70	32.00	33.80	39.10	31.10	64.30	33.80	36.70	31.80	39.10	31.10	8.13E+03	1.29E+03
7/23/2018 17:50:39	37.50	31.20	33.70	40.30	30.20	64.70	33.60	37.60	30.80	40.30	30.20	1.07E+04	1.05E+03
7/23/2018 17:51:39	38.70	32.10	34.80	41.90	31.50	58.40	34.70	39.20	31.90	41.90	31.50	1.55E+04	1.41E+03
7/23/2018 17:52:39	48.50	35.70	44.80	50.00	35.00	70.70	44.60	49.00	34.90	50.00	35.00	1.00E+05	3.16E+03
7/23/2018 17:53:39	52.10	50.30	51.40	53.60	48.00	78.90	51.20	52.10	48.20	53.60	48.00	2.29E+05	6.31E+04
7/23/2018 17:54:39	56.30	51.80	54.30	59.60	50.90	74.50	54.10	59.10	51.40	59.60	50.90	9.12E+05	1.23E+05
7/23/2018 17:55:39	64.40	61.60	63.10	68.50	59.50	90.80	63.00	64.80	59.10	68.50	59.50	7.08E+06	8.91E+05
7/23/2018 17:56:39	63.60	59.60	62.00	77.90	59.00	99.80	62.00	70.10	59.20	77.90	59.00	6.17E+07	7.94E+05
7/23/2018 17:57:39	65.30	59.50	62.50	70.00	58.80	96.10	62.30	66.30	59.00	70.00	58.80	1.00E+07	7.59E+05
7/23/2018 17:58:39	64.10	59.90	63.40	76.30	59.00	109.00	63.30	68.30	59.50	76.30	59.00	4.27E+07	7.94E+05
7/23/2018 17:59:39	60.00	56.80	59.30	76.20	56.10	98.20	59.40	69.40	56.40	76.20	56.10	4.17E+07	4.07E+05
7/23/2018 18:00:39	59.30	56.10	57.70	66.90	55.30	90.40	57.60	60.50	55.70	66.90	55.30	4.90E+06	3.39E+05
7/23/2018 18:01:39	65.00	56.80	62.50	73.50	56.00	96.50	62.40	68.00	56.60	73.50	56.00	2.24E+07	3.98E+05
7/23/2018 18:02:39	65.70	61.90	64.70	80.80	60.60	104.60	64.60	72.60	60.90	80.80	60.60	1.20E+08	1.15E+06
7/23/2018 18:03:39	66.60	64.40	65.80	75.40	62.80	98.20	65.80	68.90	63.50	75.40	62.80	3.47E+07	1.91E+06

7/23/2018 18:04:39	63.00	59.00	62.00	76.30	58.20	104.30	62.00	68.20	58.50	76.30	58.20	4.27E+07	6.61E+05
7/23/2018 18:05:39	68.60	65.00	67.20	80.30	62.10	106.10	67.10	72.30	62.10	80.30	62.10	1.07E+08	1.62E+06
7/23/2018 18:06:39	68.70	65.50	68.00	84.30	64.80	110.20	67.90	75.60	65.10	84.30	64.80	2.69E+08	3.02E+06
7/23/2018 18:07:39	69.60	66.10	67.90	77.90	65.40	104.70	67.80	71.40	65.80	77.90	65.40	6.17E+07	3.47E+06
7/23/2018 18:08:39	72.50	67.70	70.70	84.90	66.80	110.60	70.60	76.60	67.60	84.90	66.80	3.09E+08	4.79E+06
7/23/2018 18:09:39	73.00	62.50	71.60	91.60	61.60	116.30	71.50	82.80	62.40	91.60	61.60	1.45E+09	1.45E+06
7/23/2018 18:10:39	64.70	60.00	65.10	87.00	58.80	110.30	65.10	78.30	59.20	87.00	58.80	5.01E+08	7.59E+05
7/23/2018 18:11:39	62.30	58.20	62.20	83.30	57.40	105.50	62.20	74.70	58.10	83.30	57.40	2.14E+08	5.50E+05
7/23/2018 18:12:39	65.20	59.50	62.80	77.40	58.50	99.80	62.70	69.30	58.90	77.40	58.50	5.50E+07	7.08E+05
7/23/2018 18:13:39	61.90	52.40	58.10	74.30	51.20	98.20	58.30	65.80	51.80	74.30	51.20	2.69E+07	1.32E+05
7/23/2018 18:14:39	52.50	50.20	51.60	64.90	49.10	91.10	51.50	57.40	49.80	64.90	49.10	3.09E+06	8.13E+04
7/23/2018 18:15:39	51.80	47.90	50.10	53.60	46.80	75.80	50.10	52.50	47.50	53.60	46.80	2.29E+05	4.79E+04
7/23/2018 18:16:39	52.40	46.50	49.60	58.50	44.80	79.60	49.50	52.90	45.80	58.50	44.80	7.08E+05	3.02E+04
7/23/2018 18:17:39	47.20	44.40	57.00	83.20	43.00	107.60	56.20	74.30	44.10	83.20	43.00	2.09E+08	2.00E+04
7/23/2018 18:18:39	52.90	44.30	49.60	58.30	43.00	83.20	52.30	66.60	44.30	58.30	43.00	6.76E+05	2.00E+04
7/23/2018 18:19:39	53.00	49.50	51.60	65.40	47.50	87.50	51.50	58.20	48.40	65.40	47.50	3.47E+06	5.62E+04
7/23/2018 18:20:39	49.70	46.40	48.30	54.60	44.50	77.70	48.30	50.90	45.40	54.60	44.50	2.88E+05	2.82E+04
7/23/2018 18:21:39	54.60	48.10	52.60	67.30	46.30	94.60	52.50	59.50	47.30	67.30	46.30	5.37E+06	4.27E+04
7/23/2018 18:22:39	52.10	45.70	48.30	54.90	44.10	79.30	48.30	53.00	45.20	54.90	44.10	3.09E+05	2.57E+04
7/23/2018 18:23:39	52.70	44.40	48.90	55.20	43.10	76.90	48.70	54.30	44.10	55.20	43.10	3.31E+05	2.04E+04
7/23/2018 18:24:39	49.80	43.00	47.20	59.90	41.30	82.20	47.40	53.50	42.50	59.90	41.30	9.77E+05	1.35E+04
7/23/2018 18:25:39	51.90	43.90	49.80	68.40	43.00	93.00	49.80	60.70	43.60	68.40	43.00	6.92E+06	2.00E+04
7/23/2018 18:26:39	46.30	42.90	44.60	55.20	41.60	78.80	44.50	48.00	42.40	55.20	41.60	3.31E+05	1.45E+04
7/23/2018 18:27:39	55.90	43.90	51.60	62.40	42.90	86.70	51.40	57.60	43.50	62.40	42.90	1.74E+06	1.95E+04
7/23/2018 18:28:39	52.00	44.20	51.40	73.30	42.80	97.10	51.40	64.30	44.10	73.30	42.80	2.14E+07	1.91E+04
7/23/2018 18:29:39	46.40	43.20	44.90	51.90	41.60	74.70	44.90	47.40	42.70	51.90	41.60	1.55E+05	1.45E+04
7/23/2018 18:30:39	48.90	43.60	46.30	57.90	42.30	84.40	46.30	52.30	43.20	57.90	42.30	6.17E+05	1.70E+04
7/23/2018 18:31:39	46.20	41.20	44.10	49.40	40.10	71.70	44.10	47.90	40.90	49.40	40.10	8.71E+04	1.02E+04
7/23/2018 18:32:39	43.30	40.50	41.80	47.20	38.60	71.90	41.80	44.00	40.30	47.20	38.60	5.25E+04	7.24E+03
7/23/2018 18:33:39	56.90	44.00	52.50	60.50	41.70	80.70	52.30	59.40	42.30	60.50	41.70	1.12E+06	1.48E+04
7/23/2018 18:34:39	57.00	52.70	55.60	73.90	51.60	96.20	55.50	65.20	52.30	73.90	51.60	2.45E+07	1.45E+05
7/23/2018 18:35:39	53.70	48.80	56.10	78.00	47.30	100.60	56.00	69.10	48.00	78.00	47.30	6.31E+07	5.37E+04
7/23/2018 18:36:39	54.00	46.80	56.40	81.40	45.40	103.00	56.40	72.80	46.20	81.40	45.40	1.38E+08	3.47E+04
7/23/2018 18:37:39	52.20	45.10	48.50	59.40	43.90	83.80	48.50	53.80	44.60	59.40	43.90	8.71E+05	2.45E+04
7/23/2018 18:38:39	49.50	44.60	47.10	52.60	43.50	78.10	47.00	49.80	44.10	52.60	43.50	1.82E+05	2.24E+04
7/23/2018 18:39:39	46.30	42.80	44.70	54.80	41.50	78.70	44.60	48.10	42.40	54.80	41.50	3.02E+05	1.41E+04
7/23/2018 18:40:39	54.90	43.70	57.10	82.50	41.80	105.40	57.10	73.90	42.80	82.50	41.80	1.78E+08	1.51E+04
7/23/2018 18:41:39	55.70	43.60	53.20	75.90	42.50	97.20	53.20	67.30	43.40	75.90	42.50	3.89E+07	1.78E+04
7/23/2018 18:42:39	48.40	41.80	45.10	53.20	40.50	75.30	45.10	49.80	41.50	53.20	40.50	2.09E+05	1.12E+04
7/23/2018 18:43:39	44.00	41.10	42.50	50.10	40.00	71.50	42.50	44.70	41.00	50.10	40.00	1.02E+05	1.00E+04
7/23/2018 18:44:39	43.20	39.60	41.20	46.90	38.10	71.10	41.20	43.90	39.60	46.90	38.10	4.90E+04	6.46E+03
7/23/2018 18:45:39	42.30	39.10	40.80	50.50	37.90	72.80	40.80	43.90	39.00	50.50	37.90	1.12E+05	6.17E+03
7/23/2018 18:46:39	46.80	39.10	43.90	63.60	37.20	88.30	43.60	55.00	38.50	63.60	37.20	2.29E+06	5.25E+03
7/23/2018 18:47:39	41.40	38.60	40.10	45.00	36.90	70.80	40.60	49.90	38.30	45.00	36.90	3.16E+04	4.90E+03
7/23/2018 18:48:39	43.60	38.30	41.10	48.20	37.20	72.40	41.00	45.40	38.40	48.20	37.20	6.61E+04	5.25E+03
7/23/2018 18:49:39	43.30	38.40	42.90	65.30	36.50	90.10	42.80	56.20	37.90	65.30	36.50	3.39E+06	4.47E+03
7/23/2018 18:50:39	40.50	37.20	39.10	52.60	35.90	79.40	39.00	44.70	37.40	52.60	35.90	1.82E+05	3.89E+03

7/23/2018 18:51:39	39.90	36.80	38.40	45.10	35.20	73.10	38.30	41.50	36.60	45.10	35.20	3.24E+04	3.31E+03
7/23/2018 18:52:39	43.90	37.90	50.00	76.00	35.40	98.80	50.00	67.20	37.30	76.00	35.40	3.98E+07	3.47E+03
7/23/2018 18:53:39	38.10	34.80	36.60	45.30	33.30	73.10	36.50	39.00	35.10	45.30	33.30	3.39E+04	2.14E+03
7/23/2018 18:54:39	38.50	35.00	36.90	50.70	33.90	72.90	36.90	42.90	35.20	50.70	33.90	1.17E+05	2.45E+03
7/23/2018 18:55:39	38.80	34.50	36.60	42.80	32.90	70.80	36.60	39.90	34.30	42.80	32.90	1.91E+04	1.95E+03
7/23/2018 18:56:39	37.40	34.30	35.90	43.50	33.10	70.70	35.80	38.10	34.50	43.50	33.10	2.24E+04	2.04E+03
7/23/2018 18:57:39	38.50	34.20	36.90	53.30	32.90	74.80	36.70	44.70	34.50	53.30	32.90	2.14E+05	1.95E+03
7/23/2018 18:58:39	39.00	34.80	48.30	74.50	33.10	98.00	48.40	65.70	34.80	74.50	33.10	2.82E+07	2.04E+03
7/23/2018 18:59:39	37.50	34.20	35.70	42.00	33.00	71.30	35.70	38.50	34.20	42.00	33.00	1.58E+04	2.00E+03
7/23/2018 19:00:39	40.80	34.00	37.80	46.10	32.50	72.90	37.70	42.10	33.90	46.10	32.50	4.07E+04	1.78E+03
7/23/2018 19:01:39	49.60	35.20	43.90	53.80	32.60	77.60	43.80	51.20	34.50	53.80	32.60	2.40E+05	1.82E+03
7/23/2018 19:02:39	35.90	32.80	34.40	41.60	31.60	70.30	34.30	36.70	33.00	41.60	31.60	1.45E+04	1.45E+03
7/23/2018 19:03:39	36.70	33.60	35.20	44.70	32.00	68.50	35.20	38.10	33.50	44.70	32.00	2.95E+04	1.58E+03
7/23/2018 19:04:39	38.80	33.50	36.20	45.10	32.20	71.40	36.10	39.90	33.60	45.10	32.20	3.24E+04	1.66E+03
7/23/2018 19:05:39	38.70	36.10	37.40	44.60	35.20	71.00	37.40	40.10	36.00	44.60	35.20	2.88E+04	3.31E+03
7/23/2018 19:06:39	45.70	39.70	43.40	47.40	37.80	69.90	43.40	46.50	38.10	47.40	37.80	5.50E+04	6.03E+03
7/23/2018 19:07:39	43.60	36.90	43.80	67.50	34.50	91.50	43.70	58.40	35.80	67.50	34.50	5.62E+06	2.82E+03
7/23/2018 19:08:39	40.40	35.40	38.00	45.30	34.10	72.70	38.00	41.30	35.10	45.30	34.10	3.39E+04	2.57E+03
7/23/2018 19:09:39	39.10	35.30	37.50	49.50	33.90	69.50	37.40	42.00	34.80	49.50	33.90	8.91E+04	2.45E+03
7/23/2018 19:10:39	45.40	35.80	41.80	48.40	34.60	70.60	41.70	47.40	35.30	48.40	34.60	6.92E+04	2.88E+03
7/23/2018 19:11:39	41.40	36.40	39.40	44.00	34.60	68.70	39.30	41.80	35.40	44.00	34.60	2.51E+04	2.88E+03
7/23/2018 19:12:39	39.70	35.70	37.80	45.40	34.70	70.20	37.70	41.10	35.30	45.40	34.70	3.47E+04	2.95E+03
7/23/2018 19:13:39	40.90	36.00	38.30	43.80	34.90	70.50	38.30	42.50	35.60	43.80	34.90	2.40E+04	3.09E+03
7/23/2018 19:14:39	38.30	34.70	36.60	41.20	33.00	66.40	36.60	39.00	33.80	41.20	33.00	1.32E+04	2.00E+03
7/23/2018 19:15:39	37.70	33.90	35.60	42.70	32.80	70.20	35.50	39.60	33.70	42.70	32.80	1.86E+04	1.91E+03
7/23/2018 19:16:39	36.90	34.20	35.50	42.30	32.90	67.10	35.50	38.40	33.60	42.30	32.90	1.70E+04	1.95E+03
7/23/2018 19:17:39	38.70	34.50	36.50	45.00	33.20	67.70	36.40	41.10	34.30	45.00	33.20	3.16E+04	2.09E+03
7/23/2018 19:18:39	35.50	33.20	34.40	39.50	31.80	66.40	34.40	36.00	32.60	39.50	31.80	8.91E+03	1.51E+03
7/23/2018 19:19:39	39.60	36.10	37.70	42.60	35.00	67.20	37.70	40.30	35.50	42.60	35.00	1.82E+04	3.16E+03
7/23/2018 19:20:39	41.00	35.70	46.80	72.70	34.70	98.00	46.40	63.70	35.30	72.70	34.70	1.86E+07	2.95E+03
7/23/2018 19:21:39	41.80	34.50	38.40	44.40	33.30	69.20	40.10	53.20	34.00	44.40	33.30	2.75E+04	2.14E+03
7/23/2018 19:22:39	48.70	40.50	45.80	56.20	39.60	74.60	45.60	51.20	39.90	56.20	39.60	4.17E+05	9.12E+03
7/23/2018 19:23:39	52.50	36.10	46.30	57.10	35.10	70.60	46.30	53.10	35.60	57.10	35.10	5.13E+05	3.24E+03
7/23/2018 19:24:39	45.20	36.00	43.10	56.30	35.10	72.60	43.30	52.20	35.90	56.30	35.10	4.27E+05	3.24E+03
7/23/2018 19:25:39	50.00	35.70	44.90	57.10	34.80	73.00	44.80	51.20	35.60	57.10	34.80	5.13E+05	3.02E+03
7/23/2018 19:26:39	43.50	35.60	41.20	57.20	34.60	69.40	41.20	50.20	35.20	57.20	34.60	5.25E+05	2.88E+03
7/23/2018 19:27:39	45.60	35.60	42.30	52.00	34.00	67.80	42.10	45.50	36.50	52.00	34.00	1.58E+05	2.51E+03
7/23/2018 19:28:39	50.40	48.00	50.30	70.00	45.40	91.70	50.20	61.20	45.50	70.00	45.40	1.00E+07	3.47E+04
7/23/2018 19:29:39	53.10	47.20	50.50	54.50	46.30	71.80	50.40	53.90	46.90	54.50	46.30	2.82E+05	4.27E+04
7/23/2018 19:30:39	58.30	50.40	53.60	66.50	49.70	91.40	53.30	59.30	50.00	66.50	49.70	4.47E+06	9.33E+04
7/23/2018 19:31:39	58.10	54.00	55.70	59.70	53.20	79.60	55.80	59.20	53.50	59.70	53.20	9.33E+05	2.09E+05
7/23/2018 19:32:39	57.50	53.80	55.40	65.00	53.30	86.30	55.30	59.00	53.50	65.00	53.30	3.16E+06	2.14E+05
7/23/2018 19:33:39	55.40	53.60	55.00	72.30	51.70	95.80	55.00	64.00	52.10	72.30	51.70	1.70E+07	1.48E+05
7/23/2018 19:34:39	52.80	50.00	51.90	67.10	49.10	92.00	51.80	59.10	49.60	67.10	49.10	5.13E+06	8.13E+04
7/23/2018 19:35:39	52.60	48.70	51.40	70.70	47.80	93.10	51.40	61.90	48.40	70.70	47.80	1.17E+07	6.03E+04
7/23/2018 19:36:39	55.90	48.80	52.10	64.40	47.60	86.20	52.10	57.20	48.60	64.40	47.60	2.75E+06	5.75E+04
7/23/2018 19:37:39	55.50	50.60	53.90	66.50	49.80	90.60	53.80	59.00	49.90	66.50	49.80	4.47E+06	9.55E+04

7/23/2018 19:38:39	55.30	52.20	53.60	67.00	51.40	92.00	53.50	58.90	51.80	67.00	51.40	5.01E+06	1.38E+05
7/23/2018 19:39:39	59.00	56.60	57.50	65.70	55.90	91.00	57.40	59.90	56.00	65.70	55.90	3.72E+06	3.89E+05
7/23/2018 19:40:39	60.10	52.70	58.10	74.60	50.60	98.50	58.20	66.50	51.40	74.60	50.60	2.88E+07	1.15E+05
7/23/2018 19:41:39	52.30	50.10	51.00	56.00	49.40	76.80	50.90	53.20	50.00	56.00	49.40	3.98E+05	8.71E+04
7/23/2018 19:42:39	50.80	46.40	48.50	56.00	45.20	76.50	48.50	53.60	46.20	56.00	45.20	3.98E+05	3.31E+04
7/23/2018 19:43:39	50.30	45.80	48.20	54.20	44.60	78.10	48.20	50.50	45.40	54.20	44.60	2.63E+05	2.88E+04
7/23/2018 19:44:39	46.70	43.80	45.40	60.40	42.30	83.30	45.40	52.60	43.40	60.40	42.30	1.10E+06	1.70E+04
7/23/2018 19:45:39	47.50	42.70	45.10	53.00	41.10	74.80	45.10	49.40	42.10	53.00	41.10	2.00E+05	1.29E+04
7/23/2018 19:46:39	45.10	41.70	44.60	63.90	40.70	88.50	44.50	55.20	41.80	63.90	40.70	2.45E+06	1.17E+04
7/23/2018 19:47:39	43.70	40.60	42.50	57.70	39.20	84.00	42.50	50.00	40.60	57.70	39.20	5.89E+05	8.32E+03
7/23/2018 19:48:39	51.00	41.00	56.60	82.40	39.40	104.90	56.50	73.70	40.60	82.40	39.40	1.74E+08	8.71E+03
7/23/2018 19:49:39	46.90	41.90	44.40	51.90	40.70	73.10	44.30	47.60	41.60	51.90	40.70	1.55E+05	1.17E+04
7/23/2018 19:50:39	44.70	40.00	42.50	50.40	38.70	73.20	42.40	46.70	40.10	50.40	38.70	1.10E+05	7.41E+03
7/23/2018 19:51:39	44.00	39.70	42.30	52.80	37.90	73.10	42.20	47.80	39.10	52.80	37.90	1.91E+05	6.17E+03
7/23/2018 19:52:39	49.70	40.50	45.20	52.20	38.60	74.90	45.00	50.10	39.70	52.20	38.60	1.66E+05	7.24E+03
7/23/2018 19:53:39	57.70	47.40	59.00	84.10	45.80	106.80	59.00	75.20	46.50	84.10	45.80	2.57E+08	3.80E+04
7/23/2018 19:54:39	55.20	46.70	52.40	73.20	45.70	96.70	52.30	64.40	46.20	73.20	45.70	2.09E+07	3.72E+04
7/23/2018 19:55:39	48.50	43.30	46.90	60.30	41.30	85.00	47.10	53.20	42.60	60.30	41.30	1.07E+06	1.35E+04
7/23/2018 19:56:39	43.30	39.60	49.70	75.50	38.00	98.00	49.60	66.50	39.30	75.50	38.00	3.55E+07	6.31E+03
7/23/2018 19:57:39	43.00	38.40	40.70	51.00	36.80	71.70	40.70	45.20	38.20	51.00	36.80	1.26E+05	4.79E+03
7/23/2018 19:58:39	44.70	38.10	41.30	48.50	36.50	70.90	41.20	46.40	38.00	48.50	36.50	7.08E+04	4.47E+03
7/23/2018 19:59:39	41.10	37.50	39.30	46.00	36.10	73.40	39.20	42.30	37.40	46.00	36.10	3.98E+04	4.07E+03
7/23/2018 20:00:39	39.60	36.90	38.30	47.00	35.10	69.30	38.20	41.00	37.10	47.00	35.10	5.01E+04	3.24E+03
7/23/2018 20:01:39	41.70	37.00	39.30	46.50	35.70	76.30	39.10	43.30	37.10	46.50	35.70	4.47E+04	3.72E+03
7/23/2018 20:02:39	46.60	38.10	42.80	50.60	36.20	71.70	42.80	49.60	37.40	50.60	36.20	1.15E+05	4.17E+03
7/23/2018 20:03:39	39.00	36.30	37.60	44.20	34.30	73.40	37.60	39.40	36.00	44.20	34.30	2.63E+04	2.69E+03
7/23/2018 20:04:39	37.90	35.20	36.60	43.50	34.00	71.10	36.50	38.60	35.40	43.50	34.00	2.24E+04	2.51E+03
7/23/2018 20:05:39	41.20	37.40	43.30	67.40	35.70	91.30	41.80	58.50	36.80	67.40	35.70	5.50E+06	3.72E+03
7/23/2018 20:06:39	45.50	38.60	41.80	47.30	37.40	75.00	43.20	55.50	38.00	47.30	37.40	5.37E+04	5.50E+03
7/23/2018 20:07:39	46.90	37.50	43.60	54.10	36.10	77.70	43.50	49.40	36.90	54.10	36.10	2.57E+05	4.07E+03
7/23/2018 20:08:39	44.50	36.30	41.60	49.10	34.70	69.80	41.70	45.50	35.40	49.10	34.70	8.13E+04	2.95E+03
7/23/2018 20:09:39	39.90	35.60	37.90	46.60	33.70	72.50	37.80	41.60	34.80	46.60	33.70	4.57E+04	2.34E+03
7/23/2018 20:10:39	37.40	34.50	36.00	44.30	33.10	68.50	35.90	38.90	34.50	44.30	33.10	2.69E+04	2.04E+03
7/23/2018 20:11:39	39.70	35.70	37.70	47.10	34.20	72.80	37.60	40.10	34.90	47.10	34.20	5.13E+04	2.63E+03
7/23/2018 20:12:39	39.00	35.70	37.50	44.80	33.60	69.60	37.50	39.50	34.50	44.80	33.60	3.02E+04	2.29E+03
7/23/2018 20:13:39	37.10	34.30	35.90	50.10	33.20	74.80	35.80	42.20	34.10	50.10	33.20	1.02E+05	2.09E+03
7/23/2018 20:14:39	39.30	35.90	37.60	42.70	34.70	69.80	37.50	39.70	35.50	42.70	34.70	1.86E+04	2.95E+03
7/23/2018 20:15:39	40.90	35.60	38.60	44.50	34.10	68.10	38.50	43.00	35.10	44.50	34.10	2.82E+04	2.57E+03
7/23/2018 20:16:39	38.30	34.50	36.50	41.50	32.70	67.50	36.40	38.90	34.20	41.50	32.70	1.41E+04	1.86E+03
7/23/2018 20:17:39	44.10	35.50	40.00	48.00	33.80	69.80	40.00	45.80	35.00	48.00	33.80	6.31E+04	2.40E+03
7/23/2018 20:18:39	42.30	36.50	39.80	50.40	34.50	72.30	39.80	45.30	35.70	50.40	34.50	1.10E+05	2.82E+03
7/23/2018 20:19:39	37.40	32.80	35.10	41.00	31.60	68.80	35.10	37.80	32.90	41.00	31.60	1.26E+04	1.45E+03
7/23/2018 20:20:39	37.10	33.20	35.10	46.70	32.10	74.50	35.10	39.10	33.30	46.70	32.10	4.68E+04	1.62E+03
7/23/2018 20:21:39	50.10	34.40	45.10	53.80	33.10	73.60	45.10	52.30	34.10	53.80	33.10	2.40E+05	2.04E+03
7/23/2018 20:22:39	40.40	34.00	37.10	43.80	32.80	72.60	37.20	42.40	33.70	43.80	32.80	2.40E+04	1.91E+03
7/23/2018 20:23:39	40.60	34.60	37.80	45.60	32.90	70.20	37.70	41.60	34.10	45.60	32.90	3.63E+04	1.95E+03
7/23/2018 20:24:39	38.10	33.40	35.90	43.50	31.90	67.50	35.90	38.80	33.60	43.50	31.90	2.24E+04	1.55E+03

7/23/2018 20:25:39	39.90	33.20	37.10	45.70	31.90	71.00	37.00	40.60	33.00	45.70	31.90	3.72E+04	1.55E+03
7/23/2018 20:26:39	38.20	34.40	36.40	46.60	32.80	74.00	36.40	41.10	34.30	46.60	32.80	4.57E+04	1.91E+03
7/23/2018 20:27:39	39.90	34.80	37.40	42.40	33.20	67.00	37.40	40.70	34.80	42.40	33.20	1.74E+04	2.09E+03
7/23/2018 20:28:39	42.50	35.90	39.60	52.30	33.30	73.90	39.50	45.90	34.60	52.30	33.30	1.70E+05	2.14E+03
7/23/2018 20:29:39	39.70	34.70	37.80	44.50	33.00	70.90	37.70	40.90	33.70	44.50	33.00	2.82E+04	2.00E+03
7/23/2018 20:30:39	40.20	34.90	37.50	43.10	33.50	66.80	37.40	41.20	34.50	43.10	33.50	2.04E+04	2.24E+03
7/23/2018 20:31:39	57.10	43.80	53.20	57.80	41.40	75.80	52.90	57.20	41.20	57.80	41.40	6.03E+05	1.38E+04
7/23/2018 20:32:39	59.20	53.70	56.70	64.40	52.90	86.70	56.60	60.30	53.40	64.40	52.90	2.75E+06	1.95E+05
7/23/2018 20:33:39	54.00	51.30	52.60	58.70	49.90	80.00	52.70	57.00	50.50	58.70	49.90	7.41E+05	9.77E+04
7/23/2018 20:34:39	53.70	48.20	51.60	67.20	47.20	88.80	51.60	58.60	47.90	67.20	47.20	5.25E+06	5.25E+04
7/23/2018 20:35:39	56.90	48.20	54.40	69.60	46.70	93.80	54.40	61.90	47.40	69.60	46.70	9.12E+06	4.68E+04
7/23/2018 20:36:39	51.50	48.50	52.70	75.00	47.40	98.40	52.60	65.90	48.30	75.00	47.40	3.16E+07	5.50E+04
7/23/2018 20:37:39	50.00	46.90	59.20	85.20	45.80	107.20	59.00	76.00	46.60	85.20	45.80	3.31E+08	3.80E+04
7/23/2018 20:38:39	54.00	48.00	51.90	59.30	46.40	84.60	51.80	55.30	47.20	59.30	46.40	8.51E+05	4.37E+04
7/23/2018 20:39:39	58.10	50.20	57.00	79.30	49.00	100.70	56.90	70.80	49.70	79.30	49.00	8.51E+07	7.94E+04
7/23/2018 20:40:39	57.90	50.30	54.70	68.70	49.40	91.60	54.70	62.60	50.10	68.70	49.40	7.41E+06	8.71E+04
7/23/2018 20:41:39	53.60	50.20	52.70	72.60	49.40	95.50	52.70	64.00	49.90	72.60	49.40	1.82E+07	8.71E+04
7/23/2018 20:42:39	53.70	47.90	51.80	61.90	46.40	89.60	51.80	55.10	47.00	61.90	46.40	1.55E+06	4.37E+04
7/23/2018 20:43:39	52.70	46.00	49.30	63.00	44.30	87.60	49.20	55.80	45.30	63.00	44.30	2.00E+06	2.69E+04
7/23/2018 20:44:39	52.60	46.30	49.90	54.50	44.60	76.10	49.90	53.10	45.30	54.50	44.60	2.82E+05	2.88E+04
7/23/2018 20:45:39	54.80	46.50	50.70	60.00	44.90	83.20	50.70	56.30	45.70	60.00	44.90	1.00E+06	3.09E+04
7/23/2018 20:46:39	48.00	43.90	45.90	51.00	42.10	75.70	45.90	48.90	43.00	51.00	42.10	1.26E+05	1.62E+04
7/23/2018 20:47:39	50.60	44.10	48.40	61.50	42.10	88.50	48.30	54.40	43.10	61.50	42.10	1.41E+06	1.62E+04
7/23/2018 20:48:39	46.00	42.50	44.40	47.50	41.30	70.10	44.30	46.40	42.20	47.50	41.30	5.62E+04	1.35E+04
7/23/2018 20:49:39	44.90	41.50	43.30	50.60	40.20	75.90	43.30	47.80	41.20	50.60	40.20	1.15E+05	1.05E+04
7/23/2018 20:50:39	42.60	40.60	41.60	45.70	39.30	72.40	41.50	43.20	40.30	45.70	39.30	3.72E+04	8.51E+03
7/23/2018 20:51:39	46.80	39.50	43.20	51.30	38.10	78.00	43.20	49.10	39.40	51.30	38.10	1.35E+05	6.46E+03
7/23/2018 20:52:39	43.00	39.70	41.60	54.70	38.10	79.40	41.50	46.60	39.40	54.70	38.10	2.95E+05	6.46E+03
7/23/2018 20:53:39	41.30	38.20	39.70	47.50	36.90	70.00	39.60	41.60	38.20	47.50	36.90	5.62E+04	4.90E+03
7/23/2018 20:54:39	47.00	39.00	43.50	51.60	37.10	78.00	43.40	48.90	38.70	51.60	37.10	1.45E+05	5.13E+03
7/23/2018 20:55:39	42.70	39.70	41.50	52.40	37.80	73.40	41.40	44.70	38.70	52.40	37.80	1.74E+05	6.03E+03
7/23/2018 20:56:39	46.30	39.00	43.70	48.50	36.60	72.30	43.60	47.40	37.90	48.50	36.60	7.08E+04	4.57E+03
7/23/2018 20:57:39	40.90	36.70	38.60	44.70	35.20	72.50	38.60	41.70	36.40	44.70	35.20	2.95E+04	3.31E+03
7/23/2018 20:58:39	39.00	35.90	37.40	45.40	34.90	70.60	37.40	39.80	35.90	45.40	34.90	3.47E+04	3.09E+03
7/23/2018 20:59:39	49.40	37.70	45.50	63.50	35.50	85.50	45.40	54.60	36.60	63.50	35.50	2.24E+06	3.55E+03
7/23/2018 21:00:39	45.70	39.00	42.50	49.70	37.20	74.20	42.40	46.00	38.00	49.70	37.20	9.33E+04	5.25E+03
7/23/2018 21:01:39	59.00	42.70	56.00	61.40	41.30	80.00	55.70	60.90	41.90	61.40	41.30	1.38E+06	1.35E+04
7/23/2018 21:02:39	60.60	54.00	57.80	65.30	52.90	88.60	57.80	61.00	53.40	65.30	52.90	3.39E+06	1.95E+05
7/23/2018 21:03:39	57.10	49.90	55.20	76.40	48.80	99.90	55.10	67.50	49.60	76.40	48.80	4.37E+07	7.59E+04
7/23/2018 21:04:39	53.50	48.90	51.20	60.20	46.90	86.90	51.30	54.90	47.50	60.20	46.90	1.05E+06	4.90E+04
7/23/2018 21:05:39	49.10	46.60	48.00	54.50	45.30	75.70	47.80	53.40	46.30	54.50	45.30	2.82E+05	3.39E+04
7/23/2018 21:06:39	52.80	45.80	50.00	61.70	43.40	85.10	50.10	55.10	44.60	61.70	43.40	1.48E+06	2.19E+04
7/23/2018 21:07:39	49.70	43.70	49.30	72.60	42.50	95.50	49.20	63.70	43.40	72.60	42.50	1.82E+07	1.78E+04
7/23/2018 21:08:39	47.50	43.30	53.50	79.30	42.10	103.00	53.50	70.50	42.90	79.30	42.10	8.51E+07	1.62E+04
7/23/2018 21:09:39	45.80	41.30	43.90	57.70	39.80	83.00	43.80	49.60	41.20	57.70	39.80	5.89E+05	9.55E+03
7/23/2018 21:10:39	44.90	40.30	42.80	50.60	38.80	72.80	42.80	45.70	40.00	50.60	38.80	1.15E+05	7.59E+03
7/23/2018 21:11:39	50.20	40.90	52.00	77.20	39.00	99.20	51.90	68.30	40.10	77.20	39.00	5.25E+07	7.94E+03

7/23/2018 21:12:39	48.00	41.10	44.30	50.40	39.40	74.40	44.30	49.30	40.70	50.40	39.40	1.10E+05	8.71E+03
7/23/2018 21:13:39	42.70	39.60	41.20	47.30	37.90	71.50	41.10	43.10	39.50	47.30	37.90	5.37E+04	6.17E+03
7/23/2018 21:14:39	50.80	41.60	46.90	54.30	38.90	74.60	46.80	53.50	39.60	54.30	38.90	2.69E+05	7.76E+03
7/23/2018 21:15:39	42.00	39.00	40.60	53.00	37.60	78.80	40.60	45.20	38.90	53.00	37.60	2.00E+05	5.75E+03
7/23/2018 21:16:39	41.60	39.10	40.40	50.40	37.80	72.60	40.30	43.70	38.80	50.40	37.80	1.10E+05	6.03E+03
7/23/2018 21:17:39	43.20	38.20	42.50	64.00	36.70	86.70	42.50	55.50	37.80	64.00	36.70	2.51E+06	4.68E+03
7/23/2018 21:18:39	45.30	38.50	42.60	50.00	36.30	72.30	42.60	46.20	37.60	50.00	36.30	1.00E+05	4.27E+03
7/23/2018 21:19:39	43.70	37.50	40.70	51.00	35.80	77.60	40.60	44.80	37.20	51.00	35.80	1.26E+05	3.80E+03
7/23/2018 21:20:39	41.70	36.70	39.20	45.30	35.50	71.80	39.10	42.10	36.50	45.30	35.50	3.39E+04	3.55E+03
7/23/2018 21:21:39	41.90	37.90	39.90	45.00	36.50	73.40	39.90	42.40	37.80	45.00	36.50	3.16E+04	4.47E+03
7/23/2018 21:22:39	49.90	37.90	45.70	53.40	36.20	74.10	45.60	52.30	37.20	53.40	36.20	2.19E+05	4.17E+03
7/23/2018 21:23:39	50.40	40.20	45.30	54.40	37.60	73.00	45.30	52.50	39.10	54.40	37.60	2.75E+05	5.75E+03
7/23/2018 21:24:39	39.90	37.00	38.50	47.70	35.70	69.80	38.40	41.50	37.00	47.70	35.70	5.89E+04	3.72E+03
7/23/2018 21:25:39	51.80	39.30	48.30	55.90	37.30	76.40	48.20	53.60	38.10	55.90	37.30	3.89E+05	5.37E+03
7/23/2018 21:26:39	45.00	38.90	42.80	47.80	36.90	72.30	42.80	45.60	38.10	47.80	36.90	6.03E+04	4.90E+03
7/23/2018 21:27:39	43.60	37.40	41.20	47.40	36.10	71.50	41.10	44.60	36.80	47.40	36.10	5.50E+04	4.07E+03
7/23/2018 21:28:39	46.60	42.60	44.90	49.60	40.70	73.90	44.80	48.50	41.80	49.60	40.70	9.12E+04	1.17E+04
7/23/2018 21:29:39	50.80	45.60	48.20	53.00	44.30	75.50	48.20	52.20	45.20	53.00	44.30	2.00E+05	2.69E+04
7/23/2018 21:30:39	46.70	43.60	45.50	54.00	42.30	75.10	45.20	52.40	43.10	54.00	42.30	2.51E+05	1.70E+04
7/23/2018 21:31:39	56.20	45.30	51.80	58.20	43.10	78.20	51.80	56.70	44.00	58.20	43.10	6.61E+05	2.04E+04
7/23/2018 21:32:39	47.50	44.40	45.90	50.20	43.30	77.80	45.90	47.90	44.00	50.20	43.30	1.05E+05	2.14E+04
7/23/2018 21:33:39	53.30	45.40	50.80	73.00	44.20	96.10	50.70	64.20	45.00	73.00	44.20	2.00E+07	2.63E+04
7/23/2018 21:34:39	54.70	48.50	51.40	58.40	47.20	79.40	51.20	56.30	47.80	58.40	47.20	6.92E+05	5.25E+04
7/23/2018 21:35:39	57.70	56.00	57.00	70.70	55.30	97.90	56.90	62.60	55.70	70.70	55.30	1.17E+07	3.39E+05
7/23/2018 21:36:39	57.00	56.20	56.60	66.90	55.40	92.40	56.60	59.90	56.00	66.90	55.40	4.90E+06	3.47E+05
7/23/2018 21:37:39	58.20	55.50	57.70	77.60	54.80	100.20	57.60	68.90	55.10	77.60	54.80	5.75E+07	3.02E+05
7/23/2018 21:38:39	56.00	53.40	56.70	77.10	52.70	101.10	56.60	68.20	53.10	77.10	52.70	5.13E+07	1.86E+05
7/23/2018 21:39:39	55.00	50.90	53.70	70.60	49.80	95.80	53.70	62.00	50.50	70.60	49.80	1.15E+07	9.55E+04
7/23/2018 21:40:39	53.00	49.50	51.70	71.00	48.20	92.70	51.70	62.40	48.90	71.00	48.20	1.26E+07	6.61E+04
7/23/2018 21:41:39	59.80	52.80	57.60	65.00	50.70	86.20	57.40	60.70	51.10	65.00	50.70	3.16E+06	1.17E+05
7/23/2018 21:42:39	59.50	56.30	58.90	74.60	55.60	98.40	58.80	67.70	55.90	74.60	55.60	2.88E+07	3.63E+05
7/23/2018 21:43:39	58.10	52.60	55.90	72.50	51.70	95.60	55.90	64.30	52.30	72.50	51.70	1.78E+07	1.48E+05
7/23/2018 21:44:39	57.00	52.30	54.70	68.90	51.30	91.20	54.70	60.50	51.90	68.90	51.30	7.76E+06	1.35E+05
7/23/2018 21:45:39	51.30	49.00	50.10	56.50	47.80	84.60	50.10	52.60	48.60	56.50	47.80	4.47E+05	6.03E+04
7/23/2018 21:46:39	49.80	46.80	48.20	56.20	45.60	77.50	48.20	51.30	46.50	56.20	45.60	4.17E+05	3.63E+04
7/23/2018 21:47:39	56.70	47.10	53.00	64.90	45.80	89.30	52.70	58.70	46.40	64.90	45.80	3.09E+06	3.80E+04
7/23/2018 21:48:39	54.70	47.80	52.20	68.10	46.50	91.10	52.40	59.60	47.60	68.10	46.50	6.46E+06	4.47E+04
7/23/2018 21:49:39	49.80	45.20	47.80	55.50	43.80	78.00	47.70	51.60	44.70	55.50	43.80	3.55E+05	2.40E+04
7/23/2018 21:50:39	52.00	45.90	49.60	56.60	44.30	78.40	49.50	53.50	45.30	56.60	44.30	4.57E+05	2.69E+04
7/23/2018 21:51:39	49.80	44.90	47.30	55.50	43.90	82.30	47.30	51.30	44.70	55.50	43.90	3.55E+05	2.45E+04
7/23/2018 21:52:39	52.60	44.70	48.20	59.40	43.10	82.20	48.10	55.20	44.00	59.40	43.10	8.71E+05	2.04E+04
7/23/2018 21:53:39	45.30	41.80	43.80	56.70	40.20	76.20	43.80	48.80	41.60	56.70	40.20	4.68E+05	1.05E+04
7/23/2018 21:54:39	48.80	41.90	52.80	78.00	40.40	100.20	52.50	69.20	41.70	78.00	40.40	6.31E+07	1.10E+04
7/23/2018 21:55:39	44.80	40.20	42.30	47.50	39.00	70.30	42.30	45.90	40.20	47.50	39.00	5.62E+04	7.94E+03
7/23/2018 21:56:39	46.40	40.10	43.20	53.10	38.70	75.30	43.10	48.40	40.40	53.10	38.70	2.04E+05	7.41E+03
7/23/2018 21:57:39	41.60	38.90	40.20	46.10	37.20	72.60	40.20	42.20	38.90	46.10	37.20	4.07E+04	5.25E+03
7/23/2018 21:58:39	46.50	40.50	44.60	52.70	37.60	74.30	44.30	50.50	38.80	52.70	37.60	1.86E+05	5.75E+03

7/23/2018 21:59:39	51.60	41.20	47.00	67.20	38.80	90.40	47.10	59.00	40.20	67.20	38.80	5.25E+06	7.59E+03
7/23/2018 22:00:39	44.90	40.10	48.10	73.30	38.40	95.70	48.00	64.30	39.60	73.30	38.40	2.14E+07	6.92E+03
7/23/2018 22:01:39	53.00	40.20	49.80	62.80	38.40	88.20	49.50	55.00	39.20	62.80	38.40	1.91E+06	6.92E+03
7/23/2018 22:02:39	56.60	49.40	53.60	60.50	48.00	86.30	53.60	56.90	49.00	60.50	48.00	1.12E+06	6.31E+04
7/23/2018 22:03:39	51.50	45.40	49.10	55.40	43.90	77.70	49.10	53.30	44.70	55.40	43.90	3.47E+05	2.45E+04
7/23/2018 22:04:39	46.70	43.70	45.30	53.30	42.60	80.20	45.20	47.50	43.50	53.30	42.60	2.14E+05	1.82E+04
7/23/2018 22:05:39	50.60	44.50	47.70	53.30	42.40	75.00	47.60	52.50	43.90	53.30	42.40	2.14E+05	1.74E+04
7/23/2018 22:06:39	50.50	44.10	47.50	55.00	42.30	76.40	47.40	52.10	43.00	55.00	42.30	3.16E+05	1.70E+04
7/23/2018 22:07:39	47.90	41.60	45.20	63.50	40.40	85.10	45.30	55.10	41.60	63.50	40.40	2.24E+06	1.10E+04
7/23/2018 22:08:39	44.40	40.30	42.40	54.40	38.90	77.50	42.40	46.90	40.10	54.40	38.90	2.75E+05	7.76E+03
7/23/2018 22:09:39	43.30	40.80	42.40	60.00	39.60	84.60	42.40	51.60	40.70	60.00	39.60	1.00E+06	9.12E+03
7/23/2018 22:10:39	46.30	40.40	43.70	50.30	38.60	76.60	43.60	47.70	39.70	50.30	38.60	1.07E+05	7.24E+03
7/23/2018 22:11:39	51.10	38.80	45.60	53.70	37.20	74.60	45.40	52.70	38.70	53.70	37.20	2.34E+05	5.25E+03
7/23/2018 22:12:39	46.50	40.60	43.40	50.30	38.40	72.30	43.60	48.70	39.30	50.30	38.40	1.07E+05	6.92E+03
7/23/2018 22:13:39	42.40	39.10	40.90	52.70	37.80	76.80	40.80	46.90	38.90	52.70	37.80	1.86E+05	6.03E+03
7/23/2018 22:14:39	42.80	37.80	40.60	52.60	36.20	74.00	40.70	45.30	37.40	52.60	36.20	1.82E+05	4.17E+03
7/23/2018 22:15:39	54.80	38.80	49.00	64.00	37.10	88.00	48.50	58.90	38.10	64.00	37.10	2.51E+06	5.13E+03
7/23/2018 22:16:39	48.80	41.40	45.90	55.70	39.00	74.10	46.50	56.60	40.60	55.70	39.00	3.72E+05	7.94E+03
7/23/2018 22:17:39	43.80	40.60	42.20	49.00	38.70	71.50	42.20	44.30	40.20	49.00	38.70	7.94E+04	7.41E+03
7/23/2018 22:18:39	43.30	39.10	41.30	47.00	37.80	75.00	41.20	44.70	39.00	47.00	37.80	5.01E+04	6.03E+03
7/23/2018 22:19:39	41.00	37.40	39.30	44.60	35.80	69.90	39.20	41.20	36.70	44.60	35.80	2.88E+04	3.80E+03
7/23/2018 22:20:39	44.00	38.00	41.40	48.20	36.30	72.90	41.30	46.10	37.40	48.20	36.30	6.61E+04	4.27E+03
7/23/2018 22:21:39	42.60	37.80	40.60	50.20	35.70	72.40	40.40	46.00	37.10	50.20	35.70	1.05E+05	3.72E+03
7/23/2018 22:22:39	48.40	37.90	45.60	66.10	36.60	88.50	45.60	58.10	37.80	66.10	36.60	4.07E+06	4.57E+03
7/23/2018 22:23:39	41.80	38.90	40.40	45.80	37.20	71.40	40.30	42.20	38.20	45.80	37.20	3.80E+04	5.25E+03
7/23/2018 22:24:39	41.80	38.20	40.20	51.90	36.30	74.20	40.10	44.50	37.80	51.90	36.30	1.55E+05	4.27E+03
7/23/2018 22:25:39	40.50	36.80	38.70	48.40	35.40	70.80	38.60	42.50	36.40	48.40	35.40	6.92E+04	3.47E+03
7/23/2018 22:26:39	48.70	36.60	45.50	66.80	34.90	89.70	45.40	58.60	36.10	66.80	34.90	4.79E+06	3.09E+03
7/23/2018 22:27:39	41.20	36.30	38.90	50.20	34.90	75.20	38.90	42.40	35.90	50.20	34.90	1.05E+05	3.09E+03
7/23/2018 22:28:39	39.20	35.30	37.60	45.40	33.50	69.10	37.50	40.20	34.90	45.40	33.50	3.47E+04	2.24E+03
7/23/2018 22:29:39	39.30	34.70	37.20	45.80	33.50	71.00	37.10	40.30	34.70	45.80	33.50	3.80E+04	2.24E+03
7/23/2018 22:30:39	38.50	34.80	36.90	51.00	33.40	70.70	36.80	43.20	34.70	51.00	33.40	1.26E+05	2.19E+03
7/23/2018 22:31:39	46.80	34.10	41.50	50.10	32.80	70.90	41.20	49.20	33.90	50.10	32.80	1.02E+05	1.91E+03
7/23/2018 22:32:39	43.70	35.30	39.50	48.90	33.60	72.70	39.90	47.90	35.00	48.90	33.60	7.76E+04	2.29E+03
7/23/2018 22:33:39	40.30	35.90	38.20	46.60	34.70	73.90	38.10	41.80	35.60	46.60	34.70	4.57E+04	2.95E+03
7/23/2018 22:34:39	51.90	38.20	46.90	60.70	36.70	87.80	46.50	54.40	37.60	60.70	36.70	1.17E+06	4.68E+03
7/23/2018 22:35:39	48.50	39.50	45.10	59.80	38.00	83.00	45.50	53.90	38.70	59.80	38.00	9.55E+05	6.31E+03
7/23/2018 22:36:39	40.50	37.30	39.10	46.40	35.60	75.50	39.10	41.80	36.50	46.40	35.60	4.37E+04	3.63E+03
7/23/2018 22:37:39	46.30	37.30	42.20	49.70	35.60	70.90	42.20	48.20	36.60	49.70	35.60	9.33E+04	3.63E+03
7/23/2018 22:38:39	39.80	37.40	38.60	43.80	36.20	70.60	38.50	40.20	37.10	43.80	36.20	2.40E+04	4.17E+03
7/23/2018 22:39:39	43.30	36.30	39.90	46.30	35.20	73.50	39.80	44.80	35.80	46.30	35.20	4.27E+04	3.31E+03
7/23/2018 22:40:39	39.10	36.30	37.70	43.90	34.80	68.30	37.70	39.40	35.90	43.90	34.80	2.45E+04	3.02E+03
7/23/2018 22:41:39	42.10	34.80	38.80	45.90	33.30	72.70	38.80	44.30	34.70	45.90	33.30	3.89E+04	2.14E+03
7/23/2018 22:42:39	45.50	37.50	42.30	52.60	35.90	79.30	42.30	46.90	36.70	52.60	35.90	1.82E+05	3.89E+03
7/23/2018 22:43:39	43.70	37.20	41.50	47.50	35.60	71.80	41.40	44.30	36.60	47.50	35.60	5.62E+04	3.63E+03
7/23/2018 22:44:39	47.90	38.00	44.70	53.70	36.20	75.20	44.70	52.60	37.00	53.70	36.20	2.34E+05	4.17E+03
7/23/2018 22:45:39	40.40	36.10	38.30	47.10	34.70	68.60	38.30	42.60	35.40	47.10	34.70	5.13E+04	2.95E+03

7/23/2018 22:46:39	51.90	35.90	45.20	54.70	34.80	71.70	44.70	53.90	35.30	54.70	34.80	2.95E+05	3.02E+03
7/23/2018 22:47:39	45.90	36.50	42.40	51.80	35.40	74.40	43.00	52.80	36.00	51.80	35.40	1.51E+05	3.47E+03
7/23/2018 22:48:39	41.20	36.60	39.30	52.00	35.00	75.40	39.30	45.60	36.00	52.00	35.00	1.58E+05	3.16E+03
7/23/2018 22:49:39	45.00	36.70	41.30	48.10	35.60	70.40	41.20	47.00	36.60	48.10	35.60	6.46E+04	3.63E+03
7/23/2018 22:50:39	50.90	40.00	47.80	62.30	38.10	83.10	47.70	54.90	39.20	62.30	38.10	1.70E+06	6.46E+03
7/23/2018 22:51:39	42.40	35.20	39.00	47.00	33.80	71.00	39.00	43.90	35.20	47.00	33.80	5.01E+04	2.40E+03
7/23/2018 22:52:39	46.30	37.50	43.20	48.30	35.40	73.90	43.00	47.10	36.20	48.30	35.40	6.76E+04	3.47E+03
7/23/2018 22:53:39	44.20	34.30	40.00	46.80	33.40	68.10	40.20	46.10	34.20	46.80	33.40	4.79E+04	2.19E+03
7/23/2018 22:54:39	36.50	33.60	35.10	43.40	32.40	75.00	35.00	37.50	33.50	43.40	32.40	2.19E+04	1.74E+03
7/23/2018 22:55:39	41.40	34.50	38.30	46.30	33.20	74.00	38.30	42.20	34.10	46.30	33.20	4.27E+04	2.09E+03
7/23/2018 22:56:39	37.80	34.80	36.20	43.30	33.20	68.10	36.20	38.90	34.50	43.30	33.20	2.14E+04	2.09E+03
7/23/2018 22:57:39	38.10	34.00	36.10	47.30	32.80	72.30	36.00	40.50	34.10	47.30	32.80	5.37E+04	1.91E+03
7/23/2018 22:58:39	48.20	37.20	43.40	54.70	35.40	79.10	43.40	51.50	36.40	54.70	35.40	2.95E+05	3.47E+03
7/23/2018 22:59:39	40.10	35.20	37.60	43.50	34.00	68.60	37.40	42.60	35.00	43.50	34.00	2.24E+04	2.51E+03
7/23/2018 23:00:39	44.10	37.70	41.30	47.40	34.90	69.40	41.30	45.30	35.60	47.40	34.90	5.50E+04	3.09E+03
7/23/2018 23:01:39	38.40	35.60	37.00	46.20	34.90	73.70	36.90	40.60	35.40	46.20	34.90	4.17E+04	3.09E+03
7/23/2018 23:02:39	41.00	35.90	38.50	46.30	34.70	72.40	38.40	42.80	35.20	46.30	34.70	4.27E+04	2.95E+03
7/23/2018 23:03:39	51.00	35.30	45.50	58.10	34.20	80.60	45.20	53.80	35.10	58.10	34.20	6.46E+05	2.63E+03
7/23/2018 23:04:39	47.40	36.80	43.40	51.10	35.70	71.10	43.60	50.10	36.20	51.10	35.70	1.29E+05	3.72E+03
7/23/2018 23:05:39	41.70	36.30	39.50	46.80	34.80	68.50	39.50	44.60	35.80	46.80	34.80	4.79E+04	3.02E+03
7/23/2018 23:06:39	42.70	36.30	39.50	44.30	34.60	70.30	39.40	43.30	35.60	44.30	34.60	2.69E+04	2.88E+03
7/23/2018 23:07:39	40.80	35.80	38.20	44.10	34.80	70.50	38.00	42.80	35.40	44.10	34.80	2.57E+04	3.02E+03
7/23/2018 23:08:39	40.10	36.20	38.30	43.90	35.30	71.70	38.30	41.80	35.90	43.90	35.30	2.45E+04	3.39E+03
7/23/2018 23:09:39	39.80	35.30	37.10	41.50	34.10	67.00	37.10	40.30	35.00	41.50	34.10	1.41E+04	2.57E+03
7/23/2018 23:10:39	44.60	36.30	41.60	48.20	34.10	75.60	41.40	44.70	34.90	48.20	34.10	6.61E+04	2.57E+03
7/23/2018 23:11:39	45.20	37.30	41.90	54.40	36.40	78.40	42.00	48.10	37.00	54.40	36.40	2.75E+05	4.37E+03
7/23/2018 23:12:39	49.50	39.10	44.60	50.60	36.90	70.90	44.50	50.00	37.30	50.60	36.90	1.15E+05	4.90E+03
7/23/2018 23:13:39	39.90	36.20	38.10	44.50	35.20	70.90	38.20	41.60	35.80	44.50	35.20	2.82E+04	3.31E+03
7/23/2018 23:14:39	42.50	35.70	39.70	44.70	35.00	68.50	39.60	43.70	35.50	44.70	35.00	2.95E+04	3.16E+03
7/23/2018 23:15:39	42.00	38.50	40.50	48.60	37.70	74.40	40.40	42.80	38.10	48.60	37.70	7.24E+04	5.89E+03
7/23/2018 23:16:39	45.20	36.60	42.30	47.60	35.40	73.10	42.20	46.50	35.80	47.60	35.40	5.75E+04	3.47E+03
7/23/2018 23:17:39	36.10	34.30	35.20	45.00	33.40	72.30	35.10	38.50	33.90	45.00	33.40	3.16E+04	2.19E+03
7/23/2018 23:18:39	38.70	35.40	37.20	44.40	34.00	69.50	37.10	39.90	34.60	44.40	34.00	2.75E+04	2.51E+03
7/23/2018 23:19:39	48.20	39.10	45.80	54.30	37.70	77.30	45.70	53.40	37.10	54.30	37.70	2.69E+05	5.89E+03
7/23/2018 23:20:39	46.00	39.00	43.60	52.50	37.70	77.00	43.50	47.20	38.00	52.50	37.70	1.78E+05	5.89E+03
7/23/2018 23:21:39	46.70	39.50	43.30	48.00	38.30	69.30	43.20	47.40	38.80	48.00	38.30	6.31E+04	6.76E+03
7/23/2018 23:22:39	49.60	39.50	46.20	62.10	38.60	82.80	46.20	54.40	39.10	62.10	38.60	1.62E+06	7.24E+03
7/23/2018 23:23:39	40.80	35.90	38.90	43.70	35.10	69.30	38.90	41.70	35.60	43.70	35.10	2.34E+04	3.24E+03
7/23/2018 23:24:39	47.30	39.80	43.00	48.50	38.70	66.40	43.00	48.00	38.60	48.50	38.70	7.08E+04	7.41E+03
7/23/2018 23:25:39	42.00	34.60	39.20	46.00	33.20	66.00	39.20	43.00	33.90	46.00	33.20	3.98E+04	2.09E+03
7/23/2018 23:26:39	37.50	33.60	35.70	49.50	31.90	67.20	35.70	42.90	32.90	49.50	31.90	8.91E+04	1.55E+03
7/23/2018 23:27:39	40.00	37.90	38.90	42.00	37.00	68.90	38.80	40.20	36.90	42.00	37.00	1.58E+04	5.01E+03
7/23/2018 23:28:39	39.70	34.80	37.40	43.10	33.90	69.50	37.30	41.20	34.20	43.10	33.90	2.04E+04	2.45E+03
7/23/2018 23:29:39	40.90	34.90	37.60	43.90	34.00	71.80	37.60	42.50	34.30	43.90	34.00	2.45E+04	2.51E+03
7/23/2018 23:30:39	41.80	34.50	39.40	46.00	33.20	72.70	39.30	42.20	33.70	46.00	33.20	3.98E+04	2.09E+03
7/23/2018 23:31:39	40.20	35.60	37.90	41.50	34.60	66.60	37.80	40.70	34.90	41.50	34.60	1.41E+04	2.88E+03
7/23/2018 23:32:39	36.50	34.50	35.50	42.30	33.60	68.30	35.40	36.90	34.00	42.30	33.60	1.70E+04	2.29E+03

7/23/2018 23:33:39	39.40	36.50	38.10	43.00	34.90	66.40	38.00	40.20	35.30	43.00	34.90	2.00E+04	3.09E+03
7/23/2018 23:34:39	47.20	35.20	42.30	50.80	33.80	71.00	42.10	49.60	34.60	50.80	33.80	1.20E+05	2.40E+03
7/23/2018 23:35:39	46.80	34.90	41.20	48.90	34.00	71.90	41.40	48.20	34.50	48.90	34.00	7.76E+04	2.51E+03
7/23/2018 23:36:39	39.80	33.40	37.10	42.10	32.20	66.80	37.20	40.10	32.80	42.10	32.20	1.62E+04	1.66E+03
7/23/2018 23:37:39	37.00	33.00	35.00	44.70	32.10	72.90	34.80	37.90	32.60	44.70	32.10	2.95E+04	1.62E+03
7/23/2018 23:38:39	47.60	37.20	43.80	50.80	35.60	68.30	43.70	48.50	36.10	50.80	35.60	1.20E+05	3.63E+03
7/23/2018 23:39:39	41.60	34.60	38.60	45.90	33.80	65.20	38.30	44.90	34.30	45.90	33.80	3.89E+04	2.40E+03
7/23/2018 23:40:39	42.80	36.80	40.00	48.80	35.80	67.80	40.10	47.20	36.40	48.80	35.80	7.59E+04	3.80E+03
7/23/2018 23:41:39	49.50	37.30	45.40	50.80	36.20	69.90	45.30	49.90	36.70	50.80	36.20	1.20E+05	4.17E+03
7/23/2018 23:42:39	48.20	40.10	44.00	51.70	39.20	70.70	43.90	50.30	39.70	51.70	39.20	1.48E+05	8.32E+03
7/23/2018 23:43:39	47.40	39.30	44.50	50.40	37.90	74.10	44.50	49.20	38.10	50.40	37.90	1.10E+05	6.17E+03
7/23/2018 23:44:39	42.40	36.60	39.20	43.50	35.80	64.10	39.10	43.00	36.00	43.50	35.80	2.24E+04	3.80E+03
7/23/2018 23:45:39	39.20	36.70	37.90	42.40	35.80	71.00	37.90	40.70	36.30	42.40	35.80	1.74E+04	3.80E+03
7/23/2018 23:46:39	39.60	35.10	37.10	42.70	34.50	65.90	37.10	40.90	34.90	42.70	34.50	1.86E+04	2.82E+03
7/23/2018 23:47:39	38.90	34.90	36.80	41.30	33.80	66.50	36.70	39.80	34.30	41.30	33.80	1.35E+04	2.40E+03
7/23/2018 23:48:39	43.10	39.30	41.40	46.10	38.50	68.00	41.30	44.60	38.90	46.10	38.50	4.07E+04	7.08E+03
7/23/2018 23:49:39	42.10	36.50	39.30	45.10	34.40	64.50	39.40	44.60	35.20	45.10	34.40	3.24E+04	2.75E+03
7/23/2018 23:50:39	42.20	36.00	39.60	44.40	34.90	67.60	39.50	43.40	35.40	44.40	34.90	2.75E+04	3.09E+03
7/23/2018 23:51:39	41.90	35.90	38.90	43.40	34.60	64.90	38.90	42.40	35.10	43.40	34.60	2.19E+04	2.88E+03
7/23/2018 23:52:39	42.10	34.50	39.10	43.90	33.80	69.20	38.90	42.80	34.00	43.90	33.80	2.45E+04	2.40E+03
7/23/2018 23:53:39	42.50	37.60	39.80	44.40	36.50	68.50	39.80	43.60	37.00	44.40	36.50	2.75E+04	4.47E+03
7/23/2018 23:54:39	38.80	33.80	36.00	40.60	33.00	63.10	35.90	39.40	33.40	40.60	33.00	1.15E+04	2.00E+03
7/23/2018 23:55:39	41.40	36.60	39.10	43.60	35.30	70.50	39.10	41.60	35.70	43.60	35.30	2.29E+04	3.39E+03
7/23/2018 23:56:39	37.30	33.30	35.60	41.60	32.30	66.60	35.50	37.90	32.90	41.60	32.30	1.45E+04	1.70E+03
7/23/2018 23:57:39	38.80	35.70	37.10	40.50	34.60	67.80	37.00	39.20	35.10	40.50	34.60	1.12E+04	2.88E+03
7/23/2018 23:58:39	42.50	35.00	40.40	43.80	34.10	66.10	40.30	43.10	34.60	43.80	34.10	2.40E+04	2.57E+03
7/23/2018 23:59:39	36.20	32.20	34.50	41.50	31.20	69.50	34.40	36.50	31.90	41.50	31.20	1.41E+04	1.32E+03
7/24/2018 0:00:39	34.50	32.20	33.30	38.60	31.00	64.90	33.20	35.50	31.90	38.60	31.00	7.24E+03	1.26E+03
7/24/2018 0:01:39	39.90	34.00	36.90	42.00	33.20	67.40	36.90	41.20	33.40	42.00	33.20	1.58E+04	2.09E+03
7/24/2018 0:02:39	40.10	35.10	38.00	42.70	34.50	69.70	37.90	41.30	34.80	42.70	34.50	1.86E+04	2.82E+03
7/24/2018 0:03:39	37.90	34.40	36.40	46.00	33.20	67.60	36.40	41.50	33.90	46.00	33.20	3.98E+04	2.09E+03
7/24/2018 0:04:39	43.30	36.40	41.50	46.00	33.80	68.60	41.40	43.90	34.00	46.00	33.80	3.98E+04	2.40E+03
7/24/2018 0:05:39	41.20	35.60	38.90	43.60	34.80	69.10	38.90	41.40	35.00	43.60	34.80	2.29E+04	3.02E+03
7/24/2018 0:06:39	39.30	34.00	36.70	44.50	33.40	70.00	36.60	41.50	33.70	44.50	33.40	2.82E+04	2.19E+03
7/24/2018 0:07:39	41.70	36.10	39.00	44.70	34.90	67.70	39.00	43.10	35.70	44.70	34.90	2.95E+04	3.09E+03
7/24/2018 0:08:39	38.60	33.60	36.40	39.40	32.90	62.00	36.40	38.90	33.20	39.40	32.90	8.71E+03	1.95E+03
7/24/2018 0:09:39	39.50	31.80	35.60	43.00	31.20	70.20	35.50	41.00	31.50	43.00	31.20	2.00E+04	1.32E+03
7/24/2018 0:10:39	43.70	32.20	39.00	47.90	31.10	65.50	38.50	47.10	31.40	47.90	31.10	6.17E+04	1.29E+03
7/24/2018 0:11:39	48.00	38.40	43.50	51.80	35.40	78.60	43.60	48.70	35.80	51.80	35.40	1.51E+05	3.47E+03
7/24/2018 0:12:39	40.70	35.00	38.40	52.80	33.50	73.70	38.30	44.60	34.30	52.80	33.50	1.91E+05	2.24E+03
7/24/2018 0:13:39	37.40	33.30	35.60	46.10	32.20	74.10	35.50	40.10	32.80	46.10	32.20	4.07E+04	1.66E+03
7/24/2018 0:14:39	38.30	35.30	37.10	46.70	34.30	72.30	37.00	41.40	34.60	46.70	34.30	4.68E+04	2.69E+03
7/24/2018 0:15:39	38.20	35.20	36.60	44.40	34.30	69.90	36.40	40.90	34.50	44.40	34.30	2.75E+04	2.69E+03
7/24/2018 0:16:39	42.50	34.70	38.30	45.10	33.80	67.70	38.30	44.30	34.10	45.10	33.80	3.24E+04	2.40E+03
7/24/2018 0:17:39	35.20	33.40	34.30	38.10	32.80	62.50	34.30	35.60	33.20	38.10	32.80	6.46E+03	1.91E+03
7/24/2018 0:18:39	47.40	33.00	43.80	64.70	31.90	86.60	43.60	56.20	32.80	64.70	31.90	2.95E+06	1.55E+03
7/24/2018 0:19:39	51.40	42.00	47.90	55.20	40.00	75.20	47.90	53.00	40.20	55.20	40.00	3.31E+05	1.00E+04

7/24/2018 0:20:39	42.20	36.20	39.20	44.50	35.20	67.20	39.20	43.90	35.60	44.50	35.20	2.82E+04	3.31E+03
7/24/2018 0:21:39	43.80	34.40	39.30	45.20	33.60	69.90	39.20	44.60	33.80	45.20	33.60	3.31E+04	2.29E+03
7/24/2018 0:22:39	41.50	37.60	39.30	44.10	36.80	65.00	39.20	42.50	37.00	44.10	36.80	2.57E+04	4.79E+03
7/24/2018 0:23:39	46.10	37.90	42.20	47.80	37.20	70.80	42.10	47.40	37.70	47.80	37.20	6.03E+04	5.25E+03
7/24/2018 0:24:39	40.20	36.20	38.30	46.40	35.20	63.40	38.20	42.10	35.80	46.40	35.20	4.37E+04	3.31E+03
7/24/2018 0:25:39	41.20	35.90	38.80	42.60	35.10	69.40	38.80	41.60	35.40	42.60	35.10	1.82E+04	3.24E+03
7/24/2018 0:26:39	37.30	34.20	35.90	39.90	33.50	68.20	35.80	37.40	33.80	39.90	33.50	9.77E+03	2.24E+03
7/24/2018 0:27:39	38.20	33.80	35.90	40.20	33.00	66.20	35.80	38.50	33.40	40.20	33.00	1.05E+04	2.00E+03
7/24/2018 0:28:39	40.30	32.50	36.60	41.20	31.70	60.50	36.60	40.80	32.20	41.20	31.70	1.32E+04	1.48E+03
7/24/2018 0:29:39	40.40	32.70	37.00	41.90	31.70	63.30	36.90	40.80	32.00	41.90	31.70	1.55E+04	1.48E+03
7/24/2018 0:30:39	47.10	35.70	42.60	50.50	34.30	69.90	42.50	49.50	34.60	50.50	34.30	1.12E+05	2.69E+03
7/24/2018 0:31:39	36.30	33.70	35.10	37.40	32.80	60.70	35.10	36.30	33.30	37.40	32.80	5.50E+03	1.91E+03
7/24/2018 0:32:39	35.40	33.10	34.30	40.50	32.20	66.40	34.30	36.80	32.60	40.50	32.20	1.12E+04	1.66E+03
7/24/2018 0:33:39	40.50	35.50	37.80	42.80	33.60	64.40	37.80	41.90	33.90	42.80	33.60	1.91E+04	2.29E+03
7/24/2018 0:34:39	36.30	32.90	34.60	40.20	32.20	66.50	34.60	37.40	32.50	40.20	32.20	1.05E+04	1.66E+03
7/24/2018 0:35:39	35.20	32.10	33.50	36.90	31.40	58.90	33.40	35.40	32.00	36.90	31.40	4.90E+03	1.38E+03
7/24/2018 0:36:39	33.00	31.40	32.20	40.10	30.60	68.00	32.10	34.90	31.00	40.10	30.60	1.02E+04	1.15E+03
7/24/2018 0:37:39	35.20	32.70	34.00	38.40	32.00	64.90	33.90	35.50	32.40	38.40	32.00	6.92E+03	1.58E+03
7/24/2018 0:38:39	36.60	31.80	34.50	42.80	31.10	68.60	34.40	38.70	31.50	42.80	31.10	1.91E+04	1.29E+03
7/24/2018 0:39:39	37.80	34.40	36.00	42.70	33.80	66.70	36.00	39.40	34.10	42.70	33.80	1.86E+04	2.40E+03
7/24/2018 0:40:39	33.20	30.10	31.50	40.30	29.60	69.60	31.50	35.40	29.90	40.30	29.60	1.07E+04	9.12E+02
7/24/2018 0:41:39	31.10	29.70	30.30	35.80	29.00	59.00	30.30	32.10	29.50	35.80	29.00	3.80E+03	7.94E+02
7/24/2018 0:42:39	34.30	31.20	32.80	37.40	30.20	61.40	32.70	34.60	30.70	37.40	30.20	5.50E+03	1.05E+03
7/24/2018 0:43:39	32.10	30.40	31.10	36.70	29.70	61.60	31.10	32.40	30.20	36.70	29.70	4.68E+03	9.33E+02
7/24/2018 0:44:39	37.90	30.30	35.00	48.90	29.70	67.90	34.40	44.90	30.00	48.90	29.70	7.76E+04	9.33E+02
7/24/2018 0:45:39	40.90	35.90	38.50	48.40	34.70	62.00	38.60	44.90	35.30	48.40	34.70	6.92E+04	2.95E+03
7/24/2018 0:46:39	41.20	34.50	37.50	45.70	33.60	67.60	37.40	43.00	34.00	45.70	33.60	3.72E+04	2.29E+03
7/24/2018 0:47:39	39.70	34.80	36.90	41.40	33.40	62.40	36.90	40.20	34.40	41.40	33.40	1.38E+04	2.19E+03
7/24/2018 0:48:39	39.90	31.10	35.40	42.10	30.50	62.30	35.30	41.30	30.70	42.10	30.50	1.62E+04	1.12E+03
7/24/2018 0:49:39	41.40	33.90	37.50	43.60	33.30	61.90	37.30	43.20	33.60	43.60	33.30	2.29E+04	2.14E+03
7/24/2018 0:50:39	44.80	41.40	43.20	45.80	40.70	69.00	43.20	45.30	41.00	45.80	40.70	3.80E+04	1.17E+04
7/24/2018 0:51:39	48.30	36.20	44.10	50.10	35.10	69.30	44.10	49.60	35.50	50.10	35.10	1.02E+05	3.24E+03
7/24/2018 0:52:39	38.40	33.50	36.20	44.90	32.60	68.40	36.10	40.10	33.30	44.90	32.60	3.09E+04	1.82E+03
7/24/2018 0:53:39	47.40	34.90	41.80	49.50	34.10	70.20	41.80	48.20	34.00	49.50	34.10	8.91E+04	2.57E+03
7/24/2018 0:54:39	35.30	33.70	34.50	42.40	33.20	69.60	34.40	37.60	33.50	42.40	33.20	1.74E+04	2.09E+03
7/24/2018 0:55:39	34.60	32.00	33.40	39.70	31.20	65.00	33.30	36.50	31.60	39.70	31.20	9.33E+03	1.32E+03
7/24/2018 0:56:39	38.00	32.00	35.60	44.10	31.00	69.40	35.50	39.40	31.40	44.10	31.00	2.57E+04	1.26E+03
7/24/2018 0:57:39	42.00	34.70	38.70	44.40	33.00	69.90	38.70	43.20	33.40	44.40	33.00	2.75E+04	2.00E+03
7/24/2018 0:58:39	35.70	33.20	34.60	42.70	32.60	70.00	34.50	37.70	32.90	42.70	32.60	1.86E+04	1.82E+03
7/24/2018 0:59:39	36.40	33.60	35.20	39.50	32.80	64.70	35.10	37.20	33.20	39.50	32.80	8.91E+03	1.91E+03
7/24/2018 1:00:39	42.20	35.00	39.40	45.30	33.50	67.80	39.20	43.50	34.10	45.30	33.50	3.39E+04	2.24E+03
7/24/2018 1:01:39	40.80	36.50	38.90	45.00	34.90	67.80	38.90	42.60	35.50	45.00	34.90	3.16E+04	3.09E+03
7/24/2018 1:02:39	39.90	34.50	37.10	41.40	33.40	61.70	37.10	40.40	34.00	41.40	33.40	1.38E+04	2.19E+03
7/24/2018 1:03:39	35.50	32.00	33.80	38.20	31.10	64.30	33.80	36.40	31.60	38.20	31.10	6.61E+03	1.29E+03
7/24/2018 1:04:39	40.50	34.90	37.70	44.80	32.00	69.10	37.70	40.80	32.20	44.80	32.00	3.02E+04	1.58E+03
7/24/2018 1:05:39	35.20	32.70	33.90	40.90	32.00	68.70	33.90	35.70	32.40	40.90	32.00	1.23E+04	1.58E+03
7/24/2018 1:06:39	46.80	33.70	42.90	52.10	32.20	74.90	42.80	50.30	32.80	52.10	32.20	1.62E+05	1.66E+03

7/24/2018 1:07:39	45.00	36.70	41.50	46.10	35.60	65.10	41.50	45.40	35.90	46.10	35.60	4.07E+04	3.63E+03
7/24/2018 1:08:39	39.70	34.00	37.50	40.80	33.20	67.50	37.50	41.30	33.50	40.80	33.20	1.20E+04	2.09E+03
7/24/2018 1:09:39	35.70	33.20	34.60	42.40	32.50	68.90	34.50	36.60	32.80	42.40	32.50	1.74E+04	1.78E+03
7/24/2018 1:10:39	43.50	34.70	40.30	45.30	33.70	70.00	40.20	44.50	34.00	45.30	33.70	3.39E+04	2.34E+03
7/24/2018 1:11:39	43.90	40.60	42.20	46.10	39.50	65.70	42.20	45.20	39.80	46.10	39.50	4.07E+04	8.91E+03
7/24/2018 1:12:39	39.20	34.10	37.00	41.30	33.30	62.60	37.10	41.50	33.70	41.30	33.30	1.35E+04	2.14E+03
7/24/2018 1:13:39	38.90	35.10	36.80	41.90	34.50	65.80	36.70	40.20	34.90	41.90	34.50	1.55E+04	2.82E+03
7/24/2018 1:14:39	37.80	33.70	36.00	39.40	33.10	60.50	36.00	38.20	33.30	39.40	33.10	8.71E+03	2.04E+03
7/24/2018 1:15:39	39.50	36.30	37.60	42.90	35.30	69.60	37.60	40.30	35.70	42.90	35.30	1.95E+04	3.39E+03
7/24/2018 1:16:39	36.80	35.20	36.00	45.80	34.30	70.80	35.90	39.40	34.70	45.80	34.30	3.80E+04	2.69E+03
7/24/2018 1:17:39	40.10	34.20	37.30	43.10	33.30	67.50	37.30	41.00	33.80	43.10	33.30	2.04E+04	2.14E+03
7/24/2018 1:18:39	37.90	32.60	35.70	39.70	32.00	64.00	35.60	38.40	32.20	39.70	32.00	9.33E+03	1.58E+03
7/24/2018 1:19:39	39.70	34.20	37.00	47.20	33.60	74.30	37.00	41.30	33.80	47.20	33.60	5.25E+04	2.29E+03
7/24/2018 1:20:39	38.20	33.70	35.70	40.90	32.70	68.20	35.60	39.00	33.10	40.90	32.70	1.23E+04	1.86E+03
7/24/2018 1:21:39	36.70	33.70	34.90	38.20	33.00	63.00	34.80	36.80	33.40	38.20	33.00	6.61E+03	2.00E+03
7/24/2018 1:22:39	42.60	34.80	39.50	47.10	33.90	77.00	39.40	43.70	34.30	47.10	33.90	5.13E+04	2.45E+03
7/24/2018 1:23:39	37.50	33.60	35.90	39.80	32.70	69.40	35.90	37.40	33.00	39.80	32.70	9.55E+03	1.86E+03
7/24/2018 1:24:39	47.50	35.60	42.10	49.00	34.40	67.50	41.90	48.40	34.80	49.00	34.40	7.94E+04	2.75E+03
7/24/2018 1:25:39	43.00	34.50	40.00	44.10	33.90	63.40	40.10	44.50	34.10	44.10	33.90	2.57E+04	2.45E+03
7/24/2018 1:26:39	37.70	32.60	35.10	40.10	32.00	62.60	35.30	40.20	32.20	40.10	32.00	1.02E+04	1.58E+03
7/24/2018 1:27:39	42.70	34.80	38.60	47.80	33.50	70.50	38.20	46.60	33.30	47.80	33.50	6.03E+04	2.24E+03
7/24/2018 1:28:39	44.60	34.20	40.50	49.60	33.60	69.60	40.70	48.20	33.90	49.60	33.60	9.12E+04	2.29E+03
7/24/2018 1:29:39	33.80	31.80	32.60	38.90	31.20	69.40	32.60	34.00	31.50	38.90	31.20	7.76E+03	1.32E+03
7/24/2018 1:30:39	38.80	31.80	35.60	43.20	31.10	68.80	35.60	40.10	31.40	43.20	31.10	2.09E+04	1.29E+03
7/24/2018 1:31:39	37.80	33.40	35.50	40.70	32.50	66.20	35.40	38.70	33.00	40.70	32.50	1.17E+04	1.78E+03
7/24/2018 1:32:39	40.70	32.90	37.80	42.80	32.20	65.10	37.80	41.20	32.50	42.80	32.20	1.91E+04	1.66E+03
7/24/2018 1:33:39	32.50	31.40	31.90	35.90	31.00	60.00	31.80	32.80	31.10	35.90	31.00	3.89E+03	1.26E+03
7/24/2018 1:34:39	36.30	32.00	34.20	38.00	31.30	58.90	34.10	36.70	31.40	38.00	31.30	6.31E+03	1.35E+03
7/24/2018 1:35:39	40.00	33.00	37.10	42.20	32.00	64.70	37.00	40.90	32.30	42.20	32.00	1.66E+04	1.58E+03
7/24/2018 1:36:39	39.70	35.20	37.20	40.90	34.40	63.00	37.10	40.50	34.80	40.90	34.40	1.23E+04	2.75E+03
7/24/2018 1:37:39	38.60	34.20	36.80	39.80	32.80	63.90	36.70	38.80	33.40	39.80	32.80	9.55E+03	1.91E+03
7/24/2018 1:38:39	42.20	34.70	39.90	48.00	33.90	66.50	39.80	44.70	34.10	48.00	33.90	6.31E+04	2.45E+03
7/24/2018 1:39:39	41.80	35.90	39.50	45.00	34.60	62.80	39.40	43.40	35.00	45.00	34.60	3.16E+04	2.88E+03
7/24/2018 1:40:39	44.00	37.90	41.30	49.30	35.00	60.70	41.20	46.80	35.90	49.30	35.00	8.51E+04	3.16E+03
7/24/2018 1:41:39	43.80	39.00	42.10	50.40	37.30	71.90	42.00	47.00	38.30	50.40	37.30	1.10E+05	5.37E+03
7/24/2018 1:42:39	39.50	35.60	37.80	41.30	35.10	65.50	37.80	40.00	35.40	41.30	35.10	1.35E+04	3.24E+03
7/24/2018 1:43:39	36.40	34.30	35.40	38.90	33.80	60.00	35.30	36.50	34.00	38.90	33.80	7.76E+03	2.40E+03
7/24/2018 1:44:39	33.90	32.20	33.00	36.80	31.50	61.70	32.90	34.70	31.80	36.80	31.50	4.79E+03	1.41E+03
7/24/2018 1:45:39	42.00	35.60	39.40	45.40	32.40	70.10	39.20	42.90	32.60	45.40	32.40	3.47E+04	1.74E+03
7/24/2018 1:46:39	42.10	32.80	38.00	44.90	32.10	70.50	38.10	43.30	32.40	44.90	32.10	3.09E+04	1.62E+03
7/24/2018 1:47:39	36.60	33.10	34.80	38.90	32.40	63.00	34.80	37.10	32.70	38.90	32.40	7.76E+03	1.74E+03
7/24/2018 1:48:39	35.90	33.40	34.70	37.90	32.40	59.90	34.60	36.30	32.60	37.90	32.40	6.17E+03	1.74E+03
7/24/2018 1:49:39	39.70	36.30	38.00	40.80	35.40	65.50	37.80	40.40	35.60	40.80	35.40	1.20E+04	3.47E+03
7/24/2018 1:50:39	46.00	40.30	43.20	47.50	38.70	71.10	43.10	46.60	39.20	47.50	38.70	5.62E+04	7.41E+03
7/24/2018 1:51:39	37.60	32.10	35.20	42.60	30.90	67.80	35.30	39.40	31.30	42.60	30.90	1.82E+04	1.23E+03
7/24/2018 1:52:39	38.50	31.10	35.00	41.00	30.40	64.40	34.70	40.50	30.90	41.00	30.40	1.26E+04	1.10E+03
7/24/2018 1:53:39	40.80	34.00	37.70	41.90	32.90	61.20	37.80	41.40	33.30	41.90	32.90	1.55E+04	1.95E+03

7/24/2018 1:54:39	37.70	34.30	36.30	38.80	33.50	62.40	36.30	38.10	33.40	38.80	33.50	7.59E+03	2.24E+03
7/24/2018 1:55:39	37.60	33.70	35.20	40.10	32.90	65.00	35.10	38.10	33.30	40.10	32.90	1.02E+04	1.95E+03
7/24/2018 1:56:39	34.70	32.50	33.40	36.50	31.80	60.00	33.30	35.10	32.10	36.50	31.80	4.47E+03	1.51E+03
7/24/2018 1:57:39	37.40	32.60	34.70	40.60	31.90	63.00	34.50	39.50	32.10	40.60	31.90	1.15E+04	1.55E+03
7/24/2018 1:58:39	39.00	33.20	36.80	41.00	32.70	64.70	36.80	40.30	32.90	41.00	32.70	1.26E+04	1.86E+03
7/24/2018 1:59:39	35.50	32.80	33.80	40.50	32.30	68.90	33.80	36.70	32.50	40.50	32.30	1.12E+04	1.70E+03
7/24/2018 2:00:39	38.60	34.20	36.90	40.60	33.10	64.40	36.80	39.10	33.30	40.60	33.10	1.15E+04	2.04E+03
7/24/2018 2:01:39	38.80	33.20	36.30	41.30	32.40	63.70	36.20	40.10	32.70	41.30	32.40	1.35E+04	1.74E+03
7/24/2018 2:02:39	46.30	37.70	42.50	51.90	36.20	63.40	42.50	48.90	37.00	51.90	36.20	1.55E+05	4.17E+03
7/24/2018 2:03:39	36.50	34.10	35.10	39.20	33.10	60.10	35.20	38.10	33.40	39.20	33.10	8.32E+03	2.04E+03
7/24/2018 2:04:39	42.60	34.10	39.00	47.10	33.50	64.80	38.80	44.50	33.90	47.10	33.50	5.13E+04	2.24E+03
7/24/2018 2:05:39	47.80	40.90	45.10	50.40	38.70	70.30	45.10	48.80	39.10	50.40	38.70	1.10E+05	7.41E+03
7/24/2018 2:06:39	39.60	37.50	38.50	41.40	36.20	64.10	38.50	40.40	36.60	41.40	36.20	1.38E+04	4.17E+03
7/24/2018 2:07:39	39.90	36.00	38.00	43.80	35.20	61.90	37.90	41.90	35.50	43.80	35.20	2.40E+04	3.31E+03
7/24/2018 2:08:39	41.70	35.40	39.70	44.70	34.60	67.70	39.70	42.60	34.80	44.70	34.60	2.95E+04	2.88E+03
7/24/2018 2:09:39	37.20	34.50	35.60	40.90	33.80	66.50	35.60	38.10	34.10	40.90	33.80	1.23E+04	2.40E+03
7/24/2018 2:10:39	35.60	32.80	34.30	38.50	32.10	64.00	34.20	35.60	32.40	38.50	32.10	7.08E+03	1.62E+03
7/24/2018 2:11:39	40.60	34.80	36.70	43.50	34.10	68.90	36.50	41.80	34.40	43.50	34.10	2.24E+04	2.57E+03
7/24/2018 2:12:39	39.70	35.20	37.50	41.50	34.10	66.70	37.50	40.80	34.30	41.50	34.10	1.41E+04	2.57E+03
7/24/2018 2:13:39	50.50	38.10	45.70	53.20	37.00	73.00	45.60	52.40	37.30	53.20	37.00	2.09E+05	5.01E+03
7/24/2018 2:14:39	43.60	34.00	39.90	44.50	33.20	65.80	39.90	44.00	33.60	44.50	33.20	2.82E+04	2.09E+03
7/24/2018 2:15:39	35.00	33.60	34.20	38.70	33.00	65.00	34.10	36.40	33.20	38.70	33.00	7.41E+03	2.00E+03
7/24/2018 2:16:39	38.00	36.10	36.80	42.10	35.40	65.90	36.80	38.10	35.70	42.10	35.40	1.62E+04	3.47E+03
7/24/2018 2:17:39	35.50	33.50	34.40	38.00	33.00	66.40	34.30	36.40	33.20	38.00	33.00	6.31E+03	2.00E+03
7/24/2018 2:18:39	39.60	35.70	37.60	42.50	35.00	69.60	37.50	40.60	35.30	42.50	35.00	1.78E+04	3.16E+03
7/24/2018 2:19:39	37.40	33.30	35.20	38.70	32.70	56.70	35.20	38.20	33.00	38.70	32.70	7.41E+03	1.86E+03
7/24/2018 2:20:39	41.10	35.00	38.30	41.90	34.30	60.20	38.30	41.50	34.40	41.90	34.30	1.55E+04	2.69E+03
7/24/2018 2:21:39	37.80	34.80	36.30	38.70	34.00	59.50	36.20	38.10	34.40	38.70	34.00	7.41E+03	2.51E+03
7/24/2018 2:22:39	36.90	34.10	35.70	38.80	33.00	63.00	35.60	37.10	33.20	38.80	33.00	7.59E+03	2.00E+03
7/24/2018 2:23:39	41.30	38.00	39.90	42.70	36.60	60.40	39.80	42.20	37.00	42.70	36.60	1.86E+04	4.57E+03
7/24/2018 2:24:39	40.00	33.80	36.50	41.80	33.10	64.90	36.50	41.00	33.30	41.80	33.10	1.51E+04	2.04E+03
7/24/2018 2:25:39	43.10	36.60	40.70	44.20	34.00	62.70	40.60	43.70	34.00	44.20	34.00	2.63E+04	2.51E+03
7/24/2018 2:26:39	45.00	35.40	41.20	46.30	34.70	64.60	41.10	45.90	34.90	46.30	34.70	4.27E+04	2.95E+03
7/24/2018 2:27:39	37.90	33.70	36.10	39.70	32.90	64.80	36.00	39.40	33.30	39.70	32.90	9.33E+03	1.95E+03
7/24/2018 2:28:39	39.00	34.30	37.00	41.00	33.60	65.90	37.00	39.10	33.90	41.00	33.60	1.26E+04	2.29E+03
7/24/2018 2:29:39	45.40	35.00	41.60	47.90	34.20	62.50	41.50	46.60	34.40	47.90	34.20	6.17E+04	2.63E+03
7/24/2018 2:30:39	38.60	35.00	37.10	46.70	34.20	72.10	37.10	41.50	34.40	46.70	34.20	4.68E+04	2.63E+03
7/24/2018 2:31:39	42.60	34.80	39.30	50.60	34.10	68.70	39.20	44.90	34.30	50.60	34.10	1.15E+05	2.57E+03
7/24/2018 2:32:39	38.00	35.70	36.90	39.90	35.00	61.70	36.90	38.70	35.40	39.90	35.00	9.77E+03	3.16E+03
7/24/2018 2:33:39	36.70	33.30	35.20	44.10	32.40	71.30	35.10	37.30	32.70	44.10	32.40	2.57E+04	1.74E+03
7/24/2018 2:34:39	41.10	36.40	38.40	42.20	35.50	59.00	38.40	41.70	35.90	42.20	35.50	1.66E+04	3.55E+03
7/24/2018 2:35:39	40.10	34.90	38.00	40.90	34.20	62.50	37.90	40.40	34.40	40.90	34.20	1.23E+04	2.63E+03
7/24/2018 2:36:39	39.30	36.00	37.40	40.80	35.30	62.20	37.30	40.20	35.60	40.80	35.30	1.20E+04	3.39E+03
7/24/2018 2:37:39	43.10	37.90	40.80	44.20	35.30	65.10	40.80	43.70	35.50	44.20	35.30	2.63E+04	3.39E+03
7/24/2018 2:38:39	40.20	33.90	37.80	41.20	33.10	56.40	37.80	40.80	33.50	41.20	33.10	1.32E+04	2.04E+03
7/24/2018 2:39:39	36.40	31.20	34.40	37.40	30.30	60.50	34.40	36.80	30.70	37.40	30.30	5.50E+03	1.07E+03
7/24/2018 2:40:39	41.10	32.30	38.30	42.10	31.20	62.60	38.10	41.60	31.40	42.10	31.20	1.62E+04	1.32E+03

7/24/2018 2:41:39	40.00	33.20	36.50	40.40	32.30	62.10	36.50	40.30	32.60	40.40	32.30	1.10E+04	1.70E+03
7/24/2018 2:42:39	33.80	31.70	32.80	35.50	31.00	60.30	32.80	34.10	31.20	35.50	31.00	3.55E+03	1.26E+03
7/24/2018 2:43:39	41.20	34.20	39.00	42.60	32.60	60.10	38.90	42.00	32.60	42.60	32.60	1.82E+04	1.82E+03
7/24/2018 2:44:39	42.50	37.40	40.30	50.80	36.80	70.20	40.20	45.90	36.90	50.80	36.80	1.20E+05	4.79E+03
7/24/2018 2:45:39	43.90	38.60	41.50	45.10	38.00	63.20	41.40	44.60	38.30	45.10	38.00	3.24E+04	6.31E+03
7/24/2018 2:46:39	47.40	40.10	44.60	49.60	38.10	65.90	44.60	48.80	38.50	49.60	38.10	9.12E+04	6.46E+03
7/24/2018 2:47:39	39.80	36.40	37.80	40.30	35.70	64.00	37.70	40.00	35.90	40.30	35.70	1.07E+04	3.72E+03
7/24/2018 2:48:39	45.20	38.80	41.80	47.90	37.90	69.40	41.80	46.80	38.20	47.90	37.90	6.17E+04	6.17E+03
7/24/2018 2:49:39	39.60	33.40	37.10	41.10	32.80	61.20	37.10	40.50	33.10	41.10	32.80	1.29E+04	1.91E+03
7/24/2018 2:50:39	37.90	33.80	35.80	38.30	32.90	65.20	35.70	38.00	33.20	38.30	32.90	6.76E+03	1.95E+03
7/24/2018 2:51:39	37.90	34.80	36.00	39.70	33.70	64.90	35.90	38.90	34.10	39.70	33.70	9.33E+03	2.34E+03
7/24/2018 2:52:39	39.90	34.80	37.70	40.50	34.00	65.40	37.70	40.00	34.20	40.50	34.00	1.12E+04	2.51E+03
7/24/2018 2:53:39	38.10	34.10	36.60	39.20	33.20	58.20	36.60	38.40	33.50	39.20	33.20	8.32E+03	2.09E+03
7/24/2018 2:54:39	45.10	35.40	40.60	48.00	34.10	66.20	40.60	46.10	34.40	48.00	34.10	6.31E+04	2.57E+03
7/24/2018 2:55:39	43.30	35.30	38.90	44.90	34.50	59.20	38.70	44.40	34.80	44.90	34.50	3.09E+04	2.82E+03
7/24/2018 2:56:39	41.20	35.10	38.80	45.10	34.50	63.80	38.90	43.80	34.60	45.10	34.50	3.24E+04	2.82E+03
7/24/2018 2:57:39	45.60	36.50	42.30	46.50	34.70	61.60	42.20	46.10	35.00	46.50	34.70	4.47E+04	2.95E+03
7/24/2018 2:58:39	40.40	36.40	38.50	42.20	34.90	68.40	38.40	41.20	35.00	42.20	34.90	1.66E+04	3.09E+03
7/24/2018 2:59:39	38.70	34.70	36.90	39.70	34.00	59.00	36.80	39.20	34.30	39.70	34.00	9.33E+03	2.51E+03
7/24/2018 3:00:39	41.50	36.30	39.40	42.10	34.70	58.60	39.30	41.80	35.10	42.10	34.70	1.62E+04	2.95E+03
7/24/2018 3:01:39	39.30	34.70	37.00	40.60	34.10	60.50	37.00	40.20	34.30	40.60	34.10	1.15E+04	2.57E+03
7/24/2018 3:02:39	39.50	33.50	36.40	41.30	33.00	65.70	36.40	40.70	33.30	41.30	33.00	1.35E+04	2.00E+03
7/24/2018 3:03:39	40.10	34.10	37.50	42.00	33.30	63.80	37.40	40.70	33.60	42.00	33.30	1.58E+04	2.14E+03
7/24/2018 3:04:39	38.70	36.40	37.40	39.20	35.60	55.40	37.30	38.90	35.90	39.20	35.60	8.32E+03	3.63E+03
7/24/2018 3:05:39	42.10	37.40	40.40	47.20	36.40	62.80	40.30	42.90	36.60	47.20	36.40	5.25E+04	4.37E+03
7/24/2018 3:06:39	43.90	31.90	40.00	49.70	31.20	62.70	39.60	48.80	31.50	49.70	31.20	9.33E+04	1.32E+03
7/24/2018 3:07:39	45.30	40.50	42.70	48.10	39.70	61.90	42.90	48.10	40.00	48.10	39.70	6.46E+04	9.33E+03
7/24/2018 3:08:39	41.40	34.90	38.60	43.10	34.20	61.20	38.50	42.50	34.50	43.10	34.20	2.04E+04	2.63E+03
7/24/2018 3:09:39	42.80	33.10	39.90	45.80	32.50	66.50	39.90	43.60	32.60	45.80	32.50	3.80E+04	1.78E+03
7/24/2018 3:10:39	34.90	31.10	32.70	36.10	30.40	54.80	32.70	35.50	30.70	36.10	30.40	4.07E+03	1.10E+03
7/24/2018 3:11:39	32.70	29.90	31.10	37.00	28.90	58.90	30.90	36.00	29.50	37.00	28.90	5.01E+03	7.76E+02
7/24/2018 3:12:39	40.70	32.80	36.60	42.50	32.00	63.20	36.50	41.60	32.30	42.50	32.00	1.78E+04	1.58E+03
7/24/2018 3:13:39	35.10	33.20	34.10	36.10	32.60	59.30	34.00	35.30	32.90	36.10	32.60	4.07E+03	1.82E+03
7/24/2018 3:14:39	38.60	33.00	35.20	41.40	32.40	60.20	35.00	40.30	32.70	41.40	32.40	1.38E+04	1.74E+03
7/24/2018 3:15:39	45.00	32.20	40.20	47.10	31.50	60.50	40.10	46.50	31.70	47.10	31.50	5.13E+04	1.41E+03
7/24/2018 3:16:39	39.90	35.50	37.40	42.80	34.90	59.80	37.50	43.00	35.10	42.80	34.90	1.91E+04	3.09E+03
7/24/2018 3:17:39	40.90	35.00	38.30	42.70	33.60	64.40	38.30	41.70	34.20	42.70	33.60	1.86E+04	2.29E+03
7/24/2018 3:18:39	35.00	31.20	33.30	36.00	30.70	57.10	33.20	35.50	30.90	36.00	30.70	3.98E+03	1.17E+03
7/24/2018 3:19:39	35.80	32.60	33.90	40.50	31.80	67.00	33.90	36.20	32.10	40.50	31.80	1.12E+04	1.51E+03
7/24/2018 3:20:39	36.90	32.90	35.10	40.10	32.40	67.60	34.90	37.00	32.50	40.10	32.40	1.02E+04	1.74E+03
7/24/2018 3:21:39	49.20	39.00	44.90	50.80	35.60	64.20	44.80	50.50	36.00	50.80	35.60	1.20E+05	3.63E+03
7/24/2018 3:22:39	41.30	35.20	38.10	42.70	34.40	64.70	38.10	42.00	34.70	42.70	34.40	1.86E+04	2.75E+03
7/24/2018 3:23:39	36.90	34.60	35.70	37.50	33.70	58.30	35.70	37.00	34.10	37.50	33.70	5.62E+03	2.34E+03
7/24/2018 3:24:39	45.40	36.00	42.10	46.50	33.80	59.50	42.00	46.00	34.10	46.50	33.80	4.47E+04	2.40E+03
7/24/2018 3:25:39	42.00	36.40	39.50	46.40	35.80	64.20	39.60	42.70	36.00	46.40	35.80	4.37E+04	3.80E+03
7/24/2018 3:26:39	38.30	35.20	36.60	38.90	34.40	64.80	36.50	38.50	34.60	38.90	34.40	7.76E+03	2.75E+03
7/24/2018 3:27:39	39.50	32.90	36.00	40.50	32.40	61.60	35.90	40.10	32.70	40.50	32.40	1.12E+04	1.74E+03

7/24/2018 3:28:39	43.40	34.60	40.60	45.60	33.80	60.10	40.60	45.10	34.10	45.60	33.80	3.63E+04	2.40E+03
7/24/2018 3:29:39	36.10	33.10	34.70	36.80	32.30	56.80	34.60	36.40	32.50	36.80	32.30	4.79E+03	1.70E+03
7/24/2018 3:30:39	34.60	31.20	32.90	35.60	30.60	55.00	32.90	34.90	30.80	35.60	30.60	3.63E+03	1.15E+03
7/24/2018 3:31:39	36.30	31.70	34.30	37.50	31.10	55.10	34.30	37.00	31.10	37.50	31.10	5.62E+03	1.29E+03
7/24/2018 3:32:39	40.00	35.00	37.60	40.80	33.60	64.50	37.50	40.10	33.80	40.80	33.60	1.20E+04	2.29E+03
7/24/2018 3:33:39	40.00	35.00	37.40	40.90	34.30	58.70	37.30	40.20	34.70	40.90	34.30	1.23E+04	2.69E+03
7/24/2018 3:34:39	46.50	32.80	42.10	47.60	32.00	63.00	42.10	47.10	32.30	47.60	32.00	5.75E+04	1.58E+03
7/24/2018 3:35:39	39.90	31.00	35.30	40.90	30.50	57.50	35.10	40.50	30.70	40.90	30.50	1.23E+04	1.12E+03
7/24/2018 3:36:39	39.00	31.60	35.80	40.50	30.80	55.60	35.80	40.10	31.10	40.50	30.80	1.12E+04	1.20E+03
7/24/2018 3:37:39	37.60	30.90	35.00	38.80	30.00	55.50	35.00	37.80	30.30	38.80	30.00	7.59E+03	1.00E+03
7/24/2018 3:38:39	38.20	31.50	35.30	42.50	29.90	67.80	35.20	39.10	30.30	42.50	29.90	1.78E+04	9.77E+02
7/24/2018 3:39:39	41.50	34.20	38.70	43.50	32.90	61.60	38.60	42.90	33.20	43.50	32.90	2.24E+04	1.95E+03
7/24/2018 3:40:39	44.90	37.10	41.80	46.00	36.20	64.70	41.70	45.60	36.50	46.00	36.20	3.98E+04	4.17E+03
7/24/2018 3:41:39	38.40	31.10	34.60	39.80	30.50	57.80	34.70	40.00	30.80	39.80	30.50	9.55E+03	1.12E+03
7/24/2018 3:42:39	38.70	32.90	35.90	39.70	31.80	58.30	35.80	39.20	31.50	39.70	31.80	9.33E+03	1.51E+03
7/24/2018 3:43:39	38.90	35.30	37.00	40.80	33.80	59.70	37.00	40.40	34.10	40.80	33.80	1.20E+04	2.40E+03
7/24/2018 3:44:39	39.80	33.70	37.00	40.50	32.70	59.90	36.90	40.10	33.10	40.50	32.70	1.12E+04	1.86E+03
7/24/2018 3:45:39	38.30	34.90	36.70	42.00	34.10	56.00	36.50	40.90	34.40	42.00	34.10	1.58E+04	2.57E+03
7/24/2018 3:46:39	43.80	33.10	38.80	44.70	32.40	63.20	38.90	44.30	32.70	44.70	32.40	2.95E+04	1.74E+03
7/24/2018 3:47:39	33.70	32.20	32.90	38.20	31.60	65.50	32.80	34.00	31.90	38.20	31.60	6.61E+03	1.45E+03
7/24/2018 3:48:39	36.40	33.50	34.90	37.50	32.40	63.10	34.80	36.60	32.80	37.50	32.40	5.62E+03	1.74E+03
7/24/2018 3:49:39	34.00	31.00	32.30	36.00	30.40	58.90	32.30	34.80	30.60	36.00	30.40	3.98E+03	1.10E+03
7/24/2018 3:50:39	34.10	31.00	32.80	38.10	30.30	54.00	32.50	37.60	30.60	38.10	30.30	6.46E+03	1.07E+03
7/24/2018 3:51:39	45.50	36.50	40.80	46.40	35.80	62.70	40.60	46.00	36.00	46.40	35.80	4.37E+04	3.80E+03
7/24/2018 3:52:39	42.30	38.20	40.40	45.10	37.40	63.50	40.40	44.20	37.60	45.10	37.40	3.24E+04	5.50E+03
7/24/2018 3:53:39	42.00	35.10	39.10	44.10	34.10	62.60	39.00	43.30	34.40	44.10	34.10	2.57E+04	2.57E+03
7/24/2018 3:54:39	42.70	39.20	41.10	43.90	34.80	66.90	40.90	43.50	34.60	43.90	34.80	2.45E+04	3.02E+03
7/24/2018 3:55:39	50.50	46.20	48.50	51.60	43.60	72.50	48.40	50.80	43.50	51.60	43.60	1.45E+05	2.29E+04
7/24/2018 3:56:39	51.20	43.20	47.30	53.90	42.10	75.60	47.30	53.00	43.00	53.90	42.10	2.45E+05	1.62E+04
7/24/2018 3:57:39	45.40	40.80	43.50	47.80	39.30	71.00	43.40	47.00	40.10	47.80	39.30	6.03E+04	8.51E+03
7/24/2018 3:58:39	49.90	40.80	50.30	75.00	39.40	100.00	50.30	66.40	40.00	75.00	39.40	3.16E+07	8.71E+03
7/24/2018 3:59:39	47.70	40.70	44.60	50.50	39.70	75.40	44.50	49.50	40.40	50.50	39.70	1.12E+05	9.33E+03
7/24/2018 4:00:39	50.20	46.50	48.70	53.00	45.50	75.90	48.60	50.30	46.00	53.00	45.50	2.00E+05	3.55E+04
7/24/2018 4:01:39	56.20	48.20	54.20	74.20	46.80	96.50	54.10	65.50	47.40	74.20	46.80	2.63E+07	4.79E+04
7/24/2018 4:02:39	48.20	45.20	46.80	59.60	44.10	81.70	46.80	52.50	44.90	59.60	44.10	9.12E+05	2.57E+04
7/24/2018 4:03:39	50.30	45.60	48.60	52.50	43.80	75.60	48.60	51.00	44.40	52.50	43.80	1.78E+05	2.40E+04
7/24/2018 4:04:39	50.20	42.60	46.50	55.40	40.30	73.90	46.50	53.80	41.50	55.40	40.30	3.47E+05	1.07E+04
7/24/2018 4:05:39	44.50	40.40	42.30	51.70	39.20	75.60	42.20	46.70	40.30	51.70	39.20	1.48E+05	8.32E+03
7/24/2018 4:06:39	43.20	38.80	41.00	47.80	37.10	73.40	41.00	44.00	38.40	47.80	37.10	6.03E+04	5.13E+03
7/24/2018 4:07:39	43.50	38.30	41.60	45.50	37.00	69.40	41.50	43.60	37.70	45.50	37.00	3.55E+04	5.01E+03
7/24/2018 4:08:39	47.50	39.70	44.00	49.90	38.10	71.80	43.90	48.90	38.90	49.90	38.10	9.77E+04	6.46E+03
7/24/2018 4:09:39	43.00	38.10	40.70	47.80	36.60	77.60	40.70	43.40	37.50	47.80	36.60	6.03E+04	4.57E+03
7/24/2018 4:10:39	40.60	34.80	37.80	49.90	32.80	78.10	37.80	41.80	34.60	49.90	32.80	9.77E+04	1.91E+03
7/24/2018 4:11:39	43.40	36.20	41.00	52.20	34.00	75.20	40.80	45.90	35.50	52.20	34.00	1.66E+05	2.51E+03
7/24/2018 4:12:39	43.20	37.50	40.40	46.80	35.60	73.30	40.40	44.90	36.40	46.80	35.60	4.79E+04	3.63E+03
7/24/2018 4:13:39	46.60	43.00	44.80	49.90	40.60	76.50	44.70	47.80	40.20	49.90	40.60	9.77E+04	1.15E+04
7/24/2018 4:14:39	45.80	40.90	43.50	48.60	39.40	73.30	43.50	46.30	40.40	48.60	39.40	7.24E+04	8.71E+03

7/24/2018 4:15:39	51.00	43.20	48.00	52.20	41.70	76.00	47.80	51.10	42.60	52.20	41.70	1.66E+05	1.48E+04
7/24/2018 4:16:39	56.40	52.70	54.60	62.10	50.70	88.70	54.50	57.60	50.90	62.10	50.70	1.62E+06	1.17E+05
7/24/2018 4:17:39	53.20	50.00	51.50	61.50	49.10	83.80	51.50	54.40	49.80	61.50	49.10	1.41E+06	8.13E+04
7/24/2018 4:18:39	52.90	48.60	50.30	59.40	47.40	85.40	50.30	54.50	48.10	59.40	47.40	8.71E+05	5.50E+04
7/24/2018 4:19:39	49.40	44.80	47.20	58.00	43.10	79.40	47.20	50.40	44.60	58.00	43.10	6.31E+05	2.04E+04
7/24/2018 4:20:39	45.80	42.20	44.40	58.40	41.00	81.50	44.30	50.20	42.20	58.40	41.00	6.92E+05	1.26E+04
7/24/2018 4:21:39	53.90	45.40	49.80	57.40	43.80	77.30	49.80	56.60	44.30	57.40	43.80	5.50E+05	2.40E+04
7/24/2018 4:22:39	52.20	44.20	48.60	65.00	42.60	86.90	48.60	56.20	43.90	65.00	42.60	3.16E+06	1.82E+04
7/24/2018 4:23:39	47.40	42.80	45.00	53.00	41.10	75.00	45.00	49.50	41.90	53.00	41.10	2.00E+05	1.29E+04
7/24/2018 4:24:39	46.10	41.00	43.30	51.30	39.30	77.30	43.30	47.70	40.50	51.30	39.30	1.35E+05	8.51E+03
7/24/2018 4:25:39	44.10	39.10	41.60	48.40	37.20	77.40	41.50	44.70	38.80	48.40	37.20	6.92E+04	5.25E+03
7/24/2018 4:26:39	48.50	39.90	44.80	56.00	38.50	78.00	44.80	51.80	39.50	56.00	38.50	3.98E+05	7.08E+03
7/24/2018 4:27:39	51.30	40.30	47.50	55.10	38.50	74.80	47.30	54.20	39.60	55.10	38.50	3.24E+05	7.08E+03
7/24/2018 4:28:39	54.50	45.80	50.80	57.60	44.60	78.50	50.60	55.30	45.20	57.60	44.60	5.75E+05	2.88E+04
7/24/2018 4:29:39	53.00	42.00	48.10	60.10	40.50	82.70	48.30	55.00	41.50	60.10	40.50	1.02E+06	1.12E+04
7/24/2018 4:30:39	45.70	40.30	43.60	51.60	38.30	81.80	43.50	46.10	39.30	51.60	38.30	1.45E+05	6.76E+03
7/24/2018 4:31:39	43.00	38.30	41.10	47.10	36.10	75.10	41.10	43.80	37.40	47.10	36.10	5.13E+04	4.07E+03
7/24/2018 4:32:39	40.80	37.80	39.20	45.90	36.60	71.20	39.10	42.10	37.50	45.90	36.60	3.89E+04	4.57E+03
7/24/2018 4:33:39	41.80	37.70	40.50	59.30	36.70	85.70	40.40	50.40	37.40	59.30	36.70	8.51E+05	4.68E+03
7/24/2018 4:34:39	52.90	43.50	50.40	56.10	38.30	80.30	50.40	55.10	39.10	56.10	38.30	4.07E+05	6.76E+03
7/24/2018 4:35:39	53.10	44.50	48.60	55.50	43.30	75.40	48.60	54.70	43.90	55.50	43.30	3.55E+05	2.14E+04
7/24/2018 4:36:39	44.80	41.30	43.00	48.30	40.20	73.50	43.00	45.80	40.80	48.30	40.20	6.76E+04	1.05E+04
7/24/2018 4:37:39	49.00	40.00	45.30	54.50	37.60	80.30	45.20	51.70	38.60	54.50	37.60	2.82E+05	5.75E+03
7/24/2018 4:38:39	49.90	40.40	46.20	65.60	38.40	91.00	46.00	56.80	39.30	65.60	38.40	3.63E+06	6.92E+03
7/24/2018 4:39:39	46.60	40.30	43.80	55.30	38.80	78.20	44.00	50.80	39.50	55.30	38.80	3.39E+05	7.59E+03
7/24/2018 4:40:39	47.50	40.90	45.40	55.60	39.10	75.80	45.20	49.90	39.90	55.60	39.10	3.63E+05	8.13E+03
7/24/2018 4:41:39	49.80	42.40	46.70	51.60	41.40	74.50	46.60	50.50	41.80	51.60	41.40	1.45E+05	1.38E+04
7/24/2018 4:42:39	55.80	49.30	55.30	77.40	45.20	100.80	55.20	68.70	45.60	77.40	45.20	5.50E+07	3.31E+04
7/24/2018 4:43:39	53.10	48.80	50.90	55.60	46.80	76.50	50.90	54.60	47.40	55.60	46.80	3.63E+05	4.79E+04
7/24/2018 4:44:39	50.40	44.60	47.90	57.50	43.40	77.90	47.80	51.20	44.30	57.50	43.40	5.62E+05	2.19E+04
7/24/2018 4:45:39	48.00	43.90	46.40	63.00	42.60	88.60	46.40	54.70	43.40	63.00	42.60	2.00E+06	1.82E+04
7/24/2018 4:46:39	47.10	42.50	45.10	61.90	41.10	85.10	45.00	53.50	42.10	61.90	41.10	1.55E+06	1.29E+04
7/24/2018 4:47:39	47.20	40.00	43.70	52.40	38.70	75.20	43.70	48.30	39.90	52.40	38.70	1.74E+05	7.41E+03
7/24/2018 4:48:39	42.70	39.20	41.00	48.00	37.80	71.40	41.00	43.80	38.80	48.00	37.80	6.31E+04	6.03E+03
7/24/2018 4:49:39	48.70	40.20	47.10	68.30	38.30	92.30	47.10	59.60	39.70	68.30	38.30	6.76E+06	6.76E+03
7/24/2018 4:50:39	44.70	38.80	42.00	52.60	37.50	75.90	41.90	46.40	38.50	52.60	37.50	1.82E+05	5.62E+03
7/24/2018 4:51:39	42.80	39.30	41.40	58.10	37.70	78.90	41.30	49.70	39.00	58.10	37.70	6.46E+05	5.89E+03
7/24/2018 4:52:39	49.20	38.80	45.90	63.40	37.60	86.90	45.00	57.60	38.50	63.40	37.60	2.19E+06	5.75E+03
7/24/2018 4:53:39	55.10	41.90	51.00	61.20	40.70	76.10	51.20	57.60	41.40	61.20	40.70	1.32E+06	1.17E+04
7/24/2018 4:54:39	47.50	39.30	43.90	52.60	37.70	72.30	43.70	51.50	39.00	52.60	37.70	1.82E+05	5.89E+03
7/24/2018 4:55:39	43.30	37.20	40.90	57.20	35.90	82.00	41.10	48.80	36.80	57.20	35.90	5.25E+05	3.89E+03
7/24/2018 4:56:39	40.80	38.00	39.50	46.10	36.80	72.40	39.40	41.70	37.10	46.10	36.80	4.07E+04	4.79E+03
7/24/2018 4:57:39	41.00	37.50	39.50	54.10	35.90	76.60	39.50	46.00	37.40	54.10	35.90	2.57E+05	3.89E+03
7/24/2018 4:58:39	49.10	39.90	46.00	54.90	37.20	74.00	45.90	53.70	38.00	54.90	37.20	3.09E+05	5.25E+03
7/24/2018 4:59:39	46.10	41.20	44.10	49.70	40.10	77.90	44.00	47.70	40.90	49.70	40.10	9.33E+04	1.02E+04
7/24/2018 5:00:39	45.40	39.00	42.40	46.50	37.50	68.40	42.50	46.50	38.40	46.50	37.50	4.47E+04	5.62E+03
7/24/2018 5:01:39	40.10	37.50	38.80	45.70	36.00	74.20	38.80	40.60	37.10	45.70	36.00	3.72E+04	3.98E+03

7/24/2018 5:02:39	48.00	37.90	43.20	50.10	36.50	70.90	43.10	49.50	37.30	50.10	36.50	1.02E+05	4.47E+03
7/24/2018 5:03:39	56.10	37.80	50.70	67.50	36.40	92.20	50.60	61.30	36.90	67.50	36.40	5.62E+06	4.37E+03
7/24/2018 5:04:39	51.30	36.10	45.60	53.30	34.40	73.50	45.60	51.90	35.50	53.30	34.40	2.14E+05	2.75E+03
7/24/2018 5:05:39	53.00	38.10	49.20	55.60	35.70	78.20	49.20	54.90	36.60	55.60	35.70	3.63E+05	3.72E+03
7/24/2018 5:06:39	49.40	40.00	45.90	51.10	38.50	75.10	45.80	50.30	39.50	51.10	38.50	1.29E+05	7.08E+03
7/24/2018 5:07:39	44.60	38.60	41.90	47.60	36.40	77.40	41.90	44.80	38.40	47.60	36.40	5.75E+04	4.37E+03
7/24/2018 5:08:39	48.40	39.10	45.20	53.10	37.40	75.70	44.90	51.40	38.60	53.10	37.40	2.04E+05	5.50E+03
7/24/2018 5:09:39	50.10	38.20	44.80	52.70	37.30	69.80	45.00	52.10	37.80	52.70	37.30	1.86E+05	5.37E+03
7/24/2018 5:10:39	43.90	37.70	41.10	50.00	36.10	69.90	41.00	44.30	38.10	50.00	36.10	1.00E+05	4.07E+03
7/24/2018 5:11:39	44.90	38.20	42.30	47.90	36.30	74.10	42.20	45.10	39.50	47.90	36.30	6.17E+04	4.27E+03
7/24/2018 5:12:39	44.50	36.70	40.80	47.00	35.30	69.10	40.80	43.40	36.90	47.00	35.30	5.01E+04	3.39E+03
7/24/2018 5:13:39	45.40	37.00	42.90	58.50	35.40	80.00	42.80	50.50	37.60	58.50	35.40	7.08E+05	3.47E+03
7/24/2018 5:14:39	45.90	38.80	42.80	49.50	36.00	71.30	42.80	46.60	38.70	49.50	36.00	8.91E+04	3.98E+03
7/24/2018 5:15:39	45.10	36.20	41.30	48.60	34.90	71.50	41.20	44.70	37.00	48.60	34.90	7.24E+04	3.09E+03
7/24/2018 5:16:39	47.40	37.20	44.20	53.10	34.60	76.90	44.10	48.90	36.30	53.10	34.60	2.04E+05	2.88E+03
7/24/2018 5:17:39	45.80	36.80	42.40	48.00	35.50	68.60	42.20	46.50	36.70	48.00	35.50	6.31E+04	3.55E+03
7/24/2018 5:18:39	44.50	37.90	41.80	47.70	34.50	66.30	41.90	45.60	37.90	47.70	34.50	5.89E+04	2.82E+03
7/24/2018 5:19:39	45.80	37.60	42.90	49.20	34.90	67.60	42.80	46.30	39.20	49.20	34.90	8.32E+04	3.09E+03
7/24/2018 5:20:39	45.60	38.60	42.90	49.20	35.60	71.10	42.90	44.80	40.70	49.20	35.60	8.32E+04	3.63E+03
7/24/2018 5:21:39	46.80	37.90	44.20	54.90	33.80	77.30	43.80	51.50	40.40	54.90	33.80	3.09E+05	2.40E+03
7/24/2018 5:22:39	55.50	38.70	50.40	60.30	34.70	71.50	50.40	54.90	44.00	60.30	34.70	1.07E+06	2.95E+03
7/24/2018 5:23:39	51.30	39.50	47.90	60.30	34.20	71.80	47.90	54.40	41.60	60.30	34.20	1.07E+06	2.63E+03
7/24/2018 5:24:39	45.00	37.50	43.00	59.60	34.30	70.30	42.20	53.80	36.10	59.60	34.30	9.12E+05	2.69E+03
7/24/2018 5:25:39	47.00	38.90	45.00	58.60	36.00	71.30	45.30	54.10	39.10	58.60	36.00	7.24E+05	3.98E+03
7/24/2018 5:26:39	46.90	38.70	44.30	58.20	34.30	68.70	44.30	52.30	40.00	58.20	34.30	6.61E+05	2.69E+03
7/24/2018 5:27:39	46.90	39.20	44.00	50.20	34.60	71.10	44.00	47.60	40.90	50.20	34.60	1.05E+05	2.88E+03
7/24/2018 5:28:39	48.10	39.40	44.90	52.30	34.40	66.30	44.80	47.70	41.30	52.30	34.40	1.70E+05	2.75E+03
7/24/2018 5:29:39	47.40	37.30	43.80	51.60	33.70	70.40	43.70	47.50	37.30	51.60	33.70	1.45E+05	2.34E+03
7/24/2018 5:30:39	47.30	38.70	44.20	51.00	34.90	74.90	44.20	47.70	39.70	51.00	34.90	1.26E+05	3.09E+03
7/24/2018 5:31:39	53.00	39.40	49.00	62.70	34.40	72.40	48.90	56.20	41.00	62.70	34.40	1.86E+06	2.75E+03
7/24/2018 5:32:39	54.80	41.60	50.80	61.90	37.40	74.90	50.70	55.80	42.80	61.90	37.40	1.55E+06	5.50E+03
7/24/2018 5:33:39	49.90	39.90	46.60	59.00	38.20	81.30	46.70	53.90	40.10	59.00	38.20	7.94E+05	6.61E+03
7/24/2018 5:34:39	44.70	37.80	41.80	47.20	36.20	68.40	41.70	45.90	37.70	47.20	36.20	5.25E+04	4.17E+03
7/24/2018 5:35:39	46.00	37.90	42.90	49.10	34.60	70.70	42.80	46.20	38.70	49.10	34.60	8.13E+04	2.88E+03
7/24/2018 5:36:39	48.70	39.80	45.20	51.80	36.10	72.60	45.10	49.80	40.90	51.80	36.10	1.51E+05	4.07E+03
7/24/2018 5:37:39	45.80	38.70	43.00	49.20	35.00	65.50	43.00	45.10	40.70	49.20	35.00	8.32E+04	3.16E+03
7/24/2018 5:38:39	45.80	38.10	42.80	49.40	34.60	66.50	42.80	46.40	40.00	49.40	34.60	8.71E+04	2.88E+03
7/24/2018 5:39:39	46.00	38.00	43.10	51.40	34.00	67.60	43.00	46.60	40.40	51.40	34.00	1.38E+05	2.51E+03
7/24/2018 5:40:39	44.50	34.50	40.90	48.70	32.00	68.00	40.90	44.20	34.60	48.70	32.00	7.41E+04	1.58E+03
7/24/2018 5:41:39	46.10	36.80	42.80	49.40	33.20	69.10	42.60	46.70	38.10	49.40	33.20	8.71E+04	2.09E+03
7/24/2018 5:42:39	47.60	36.40	44.40	54.30	30.20	65.70	44.10	50.30	35.70	54.30	30.20	2.69E+05	1.05E+03
7/24/2018 5:43:39	47.30	36.20	43.60	51.70	31.50	64.10	43.70	49.90	38.00	51.70	31.50	1.48E+05	1.41E+03
7/24/2018 5:44:39	46.90	40.10	44.30	51.30	37.80	74.40	44.30	48.00	40.90	51.30	37.80	1.35E+05	6.03E+03
7/24/2018 5:45:39	46.10	38.40	43.20	52.20	34.20	71.30	43.10	46.90	40.20	52.20	34.20	1.66E+05	2.63E+03
7/24/2018 5:46:39	45.50	37.40	42.60	48.00	33.50	71.10	42.50	44.40	39.30	48.00	33.50	6.31E+04	2.24E+03
7/24/2018 5:47:39	47.20	37.70	43.70	50.30	33.00	72.80	43.60	46.20	38.80	50.30	33.00	1.07E+05	2.00E+03
7/24/2018 5:48:39	48.00	39.80	44.90	51.20	36.90	66.20	44.80	46.90	42.80	51.20	36.90	1.32E+05	4.90E+03

7/24/2018 5:49:39	45.70	37.70	42.70	49.00	34.30	66.40	42.70	45.50	38.70	49.00	34.30	7.94E+04	2.69E+03
7/24/2018 5:50:39	45.30	37.30	42.30	47.90	34.40	70.30	42.30	44.40	39.80	47.90	34.40	6.17E+04	2.75E+03
7/24/2018 5:51:39	45.60	37.90	42.60	49.10	34.20	68.90	42.60	44.50	39.60	49.10	34.20	8.13E+04	2.63E+03
7/24/2018 5:52:39	44.80	36.40	41.70	46.90	33.60	71.40	41.60	43.40	38.90	46.90	33.60	4.90E+04	2.29E+03
7/24/2018 5:53:39	45.30	37.80	42.30	48.40	34.10	66.30	42.20	44.00	39.70	48.40	34.10	6.92E+04	2.57E+03
7/24/2018 5:54:39	45.70	39.20	42.90	49.10	36.40	68.40	42.80	44.40	40.80	49.10	36.40	8.13E+04	4.37E+03
7/24/2018 5:55:39	45.50	38.20	42.60	47.60	35.20	67.80	42.50	44.40	39.80	47.60	35.20	5.75E+04	3.31E+03
7/24/2018 5:56:39	45.70	38.80	43.00	48.70	36.40	66.90	43.00	45.00	40.80	48.70	36.40	7.41E+04	4.37E+03
7/24/2018 5:57:39	45.60	38.60	42.90	48.80	35.30	70.40	42.80	45.10	39.30	48.80	35.30	7.59E+04	3.39E+03
7/24/2018 5:58:39	43.30	35.70	40.10	48.10	33.90	64.30	40.10	44.50	35.50	48.10	33.90	6.46E+04	2.45E+03
7/24/2018 5:59:39	42.60	36.10	39.80	46.20	34.60	67.80	39.70	43.00	35.70	46.20	34.60	4.17E+04	2.88E+03
7/24/2018 6:00:39	43.80	36.20	40.80	47.40	32.80	63.40	40.70	43.10	38.00	47.40	32.80	5.50E+04	1.91E+03
7/24/2018 6:01:39	42.70	34.10	39.40	45.90	32.40	66.20	39.30	42.40	33.90	45.90	32.40	3.89E+04	1.74E+03
7/24/2018 6:02:39	44.10	35.70	40.90	47.50	32.60	70.50	40.90	43.30	37.90	47.50	32.60	5.62E+04	1.82E+03
7/24/2018 6:03:39	44.70	36.60	41.60	47.70	32.10	70.40	41.60	43.30	38.90	47.70	32.10	5.89E+04	1.62E+03
7/24/2018 6:04:39	44.50	36.00	41.30	47.30	32.90	66.90	41.20	43.30	38.40	47.30	32.90	5.37E+04	1.95E+03
7/24/2018 6:05:39	44.20	36.90	41.40	47.50	33.10	66.10	41.30	43.40	39.10	47.50	33.10	5.62E+04	2.04E+03
7/24/2018 6:06:39	46.90	40.90	44.40	49.10	37.50	73.60	44.40	47.00	41.00	49.10	37.50	8.13E+04	5.62E+03
7/24/2018 6:07:39	46.60	39.70	43.60	50.60	37.10	75.30	43.60	46.60	39.40	50.60	37.10	1.15E+05	5.13E+03
7/24/2018 6:08:39	47.80	39.40	44.70	50.50	36.90	73.10	44.60	49.00	40.90	50.50	36.90	1.12E+05	4.90E+03
7/24/2018 6:09:39	47.20	40.10	44.40	55.10	37.70	78.70	44.40	48.50	41.10	55.10	37.70	3.24E+05	5.89E+03
7/24/2018 6:10:39	46.60	40.00	44.00	49.80	37.80	74.00	43.90	46.20	41.30	49.80	37.80	9.55E+04	6.03E+03
7/24/2018 6:11:39	46.20	39.60	43.40	48.50	38.00	71.10	43.40	46.20	40.80	48.50	38.00	7.08E+04	6.31E+03
7/24/2018 6:12:39	47.80	41.40	45.20	50.40	38.60	74.70	45.20	48.80	42.00	50.40	38.60	1.10E+05	7.24E+03
7/24/2018 6:13:39	47.00	40.60	44.30	49.60	37.50	72.20	44.30	46.90	41.60	49.60	37.50	9.12E+04	5.62E+03
7/24/2018 6:14:39	46.40	39.20	44.10	60.80	36.90	84.90	44.00	52.40	40.00	60.80	36.90	1.20E+06	4.90E+03
7/24/2018 6:15:39	45.20	41.80	43.80	48.50	39.50	74.20	43.70	45.10	41.10	48.50	39.50	7.08E+04	8.91E+03
7/24/2018 6:16:39	49.10	45.80	47.90	50.90	44.30	74.90	47.80	49.00	44.70	50.90	44.30	1.23E+05	2.69E+04
7/24/2018 6:17:39	54.70	49.70	52.80	66.00	47.80	87.80	52.70	57.70	48.30	66.00	47.80	3.98E+06	6.03E+04
7/24/2018 6:18:39	59.60	54.90	57.50	66.80	54.10	90.10	57.40	60.80	54.50	66.80	54.10	4.79E+06	2.57E+05
7/24/2018 6:19:39	62.00	58.50	61.10	81.50	56.70	103.70	61.00	72.70	56.90	81.50	56.70	1.41E+08	4.68E+05
7/24/2018 6:20:39	62.70	60.70	62.00	74.40	60.10	97.30	61.90	66.40	60.40	74.40	60.10	2.75E+07	1.02E+06
7/24/2018 6:21:39	60.40	55.30	58.70	63.50	53.50	87.00	58.80	60.80	54.20	63.50	53.50	2.24E+06	2.24E+05
7/24/2018 6:22:39	57.50	52.00	54.50	63.20	51.10	87.90	54.40	58.40	51.70	63.20	51.10	2.09E+06	1.29E+05
7/24/2018 6:23:39	57.70	53.70	55.20	67.10	53.00	90.20	55.20	59.50	53.10	67.10	53.00	5.13E+06	2.00E+05
7/24/2018 6:24:39	53.80	50.50	52.80	68.50	49.50	91.90	52.70	60.10	50.00	68.50	49.50	7.08E+06	8.91E+04
7/24/2018 6:25:39	56.90	49.40	52.90	59.40	47.90	85.30	52.80	58.70	48.80	59.40	47.90	8.71E+05	6.17E+04
7/24/2018 6:26:39	57.10	48.90	55.70	77.70	47.70	100.30	55.70	69.00	48.50	77.70	47.70	5.89E+07	5.89E+04
7/24/2018 6:27:39	55.40	48.40	52.10	59.30	46.60	80.60	52.10	57.90	47.50	59.30	46.60	8.51E+05	4.57E+04
7/24/2018 6:28:39	56.30	49.50	54.20	75.20	48.00	96.80	54.10	66.50	48.80	75.20	48.00	3.31E+07	6.31E+04
7/24/2018 6:29:39	50.20	45.70	48.00	54.80	44.40	77.90	47.90	53.70	45.10	54.80	44.40	3.02E+05	2.75E+04
7/24/2018 6:30:39	48.30	44.00	46.70	52.30	42.70	76.80	46.90	52.40	43.40	52.30	42.70	1.70E+05	1.86E+04
7/24/2018 6:31:39	48.90	43.70	46.10	55.20	42.30	79.60	46.10	50.50	43.20	55.20	42.30	3.31E+05	1.70E+04
7/24/2018 6:32:39	47.50	44.60	46.00	51.10	43.40	72.90	45.90	48.10	44.10	51.10	43.40	1.29E+05	2.19E+04
7/24/2018 6:33:39	47.10	42.60	44.80	54.10	41.20	77.30	44.70	47.90	42.20	54.10	41.20	2.57E+05	1.32E+04
7/24/2018 6:34:39	47.20	42.70	44.80	50.60	41.50	71.40	44.70	49.30	42.40	50.60	41.50	1.15E+05	1.41E+04
7/24/2018 6:35:39	45.10	42.30	43.90	57.60	41.00	83.80	44.00	51.00	41.70	57.60	41.00	5.75E+05	1.26E+04

7/24/2018 6:36:39	46.10	42.50	44.30	51.10	41.10	72.70	44.20	49.30	42.00	51.10	41.10	1.29E+05	1.29E+04
7/24/2018 6:37:39	44.60	41.20	43.20	52.60	40.10	74.30	43.20	46.20	41.00	52.60	40.10	1.82E+05	1.02E+04
7/24/2018 6:38:39	54.10	41.70	49.40	58.20	40.40	79.10	49.30	55.30	41.20	58.20	40.40	6.61E+05	1.10E+04
7/24/2018 6:39:39	49.30	43.00	46.40	52.70	41.40	77.90	46.50	51.90	42.50	52.70	41.40	1.86E+05	1.38E+04
7/24/2018 6:40:39	48.70	45.10	47.00	56.20	41.90	77.50	46.90	49.60	42.90	56.20	41.90	4.17E+05	1.55E+04
7/24/2018 6:41:39	47.00	41.50	44.90	49.90	40.30	73.60	44.90	47.80	41.00	49.90	40.30	9.77E+04	1.07E+04
7/24/2018 6:42:39	54.20	41.70	49.90	63.20	40.70	87.90	49.80	56.80	41.20	63.20	40.70	2.09E+06	1.17E+04
7/24/2018 6:43:39	49.00	41.40	45.30	52.20	40.10	74.60	45.30	51.20	40.60	52.20	40.10	1.66E+05	1.02E+04
7/24/2018 6:44:39	45.20	41.50	43.40	50.60	39.90	76.80	43.30	46.10	40.70	50.60	39.90	1.15E+05	9.77E+03
7/24/2018 6:45:39	50.10	39.70	46.00	52.00	38.70	72.40	45.90	51.00	39.20	52.00	38.70	1.58E+05	7.41E+03
7/24/2018 6:46:39	41.60	39.30	40.60	52.80	38.30	74.90	40.50	45.40	39.00	52.80	38.30	1.91E+05	6.76E+03
7/24/2018 6:47:39	42.10	39.20	40.70	45.70	37.90	70.60	40.60	42.60	38.90	45.70	37.90	3.72E+04	6.17E+03
7/24/2018 6:48:39	41.90	39.40	40.60	46.20	38.30	73.30	40.50	42.30	39.10	46.20	38.30	4.17E+04	6.76E+03
7/24/2018 6:49:39	44.80	40.80	42.80	54.80	39.60	79.70	42.70	47.10	40.40	54.80	39.60	3.02E+05	9.12E+03
7/24/2018 6:50:39	50.20	42.70	46.70	53.00	41.10	75.40	46.60	50.50	41.70	53.00	41.10	2.00E+05	1.29E+04
7/24/2018 6:51:39	45.60	39.00	42.40	47.50	37.40	71.40	42.30	47.00	38.00	47.50	37.40	5.62E+04	5.50E+03
7/24/2018 6:52:39	42.00	39.20	40.60	45.00	37.50	71.10	40.50	43.00	38.40	45.00	37.50	3.16E+04	5.62E+03
7/24/2018 6:53:39	46.80	40.30	43.80	49.50	39.50	69.70	43.80	48.70	40.00	49.50	39.50	8.91E+04	8.91E+03
7/24/2018 6:54:39	48.00	39.80	44.20	49.30	38.90	71.80	44.20	48.30	39.40	49.30	38.90	8.51E+04	7.76E+03
7/24/2018 6:55:39	44.70	39.60	42.30	48.80	38.30	73.60	42.20	45.40	39.00	48.80	38.30	7.59E+04	6.76E+03
7/24/2018 6:56:39	41.10	38.20	39.50	47.10	36.20	75.30	39.50	42.90	37.30	47.10	36.20	5.13E+04	4.17E+03
7/24/2018 6:57:39	42.90	39.00	40.80	46.40	37.80	71.10	40.70	43.10	38.50	46.40	37.80	4.37E+04	6.03E+03
7/24/2018 6:58:39	41.40	39.00	40.20	46.30	37.60	70.70	40.10	42.90	38.50	46.30	37.60	4.27E+04	5.75E+03
7/24/2018 6:59:39	48.40	41.80	45.30	50.90	41.00	73.90	45.20	49.70	41.20	50.90	41.00	1.23E+05	1.26E+04
7/24/2018 7:00:39	49.00	41.50	46.10	52.80	40.30	68.80	46.00	52.10	40.90	52.80	40.30	1.91E+05	1.07E+04
7/24/2018 7:01:39	48.00	41.10	45.00	51.10	39.80	71.10	44.90	49.30	40.40	51.10	39.80	1.29E+05	9.55E+03
7/24/2018 7:02:39	46.20	39.70	43.30	47.30	38.50	71.60	43.20	46.90	39.00	47.30	38.50	5.37E+04	7.08E+03
7/24/2018 7:03:39	45.20	40.70	43.30	48.90	39.30	70.30	43.30	46.20	39.90	48.90	39.30	7.76E+04	8.51E+03
7/24/2018 7:04:39	42.80	40.20	41.50	46.30	39.20	70.60	41.40	45.10	39.80	46.30	39.20	4.27E+04	8.32E+03
7/24/2018 7:05:39	42.90	39.20	41.10	45.90	37.80	67.70	41.20	45.30	39.00	45.90	37.80	3.89E+04	6.03E+03
7/24/2018 7:06:39	41.50	38.50	40.10	43.80	36.40	70.20	40.10	41.50	38.00	43.80	36.40	2.40E+04	4.37E+03
7/24/2018 7:07:39	41.80	38.60	40.60	51.30	37.40	69.10	40.50	46.10	38.40	51.30	37.40	1.35E+05	5.50E+03
7/24/2018 7:08:39	43.00	38.40	40.30	47.70	37.20	73.90	40.20	44.20	38.30	47.70	37.20	5.89E+04	5.25E+03
7/24/2018 7:09:39	48.80	42.90	46.10	51.90	41.80	73.90	46.00	49.50	42.00	51.90	41.80	1.55E+05	1.51E+04
7/24/2018 7:10:39	50.30	40.50	46.20	51.00	38.80	72.20	46.20	50.50	40.00	51.00	38.80	1.26E+05	7.59E+03
7/24/2018 7:11:39	42.30	39.10	41.00	44.30	37.80	70.20	40.90	42.50	38.50	44.30	37.80	2.69E+04	6.03E+03
7/24/2018 7:12:39	44.90	41.00	43.20	46.10	39.40	67.80	43.10	45.40	40.30	46.10	39.40	4.07E+04	8.71E+03
7/24/2018 7:13:39	43.30	40.40	41.80	44.70	39.50	71.30	41.70	43.40	40.20	44.70	39.50	2.95E+04	8.91E+03
7/24/2018 7:14:39	46.20	42.90	44.50	47.80	40.70	66.90	44.40	46.80	42.20	47.80	40.70	6.03E+04	1.17E+04
7/24/2018 7:15:39	48.60	42.70	46.00	50.90	40.20	73.20	45.90	49.40	40.80	50.90	40.20	1.23E+05	1.05E+04
7/24/2018 7:16:39	47.90	41.10	44.80	48.90	40.10	69.30	44.70	48.20	40.70	48.90	40.10	7.76E+04	1.02E+04
7/24/2018 7:17:39	41.60	39.40	40.60	51.50	38.50	73.10	40.50	44.80	39.00	51.50	38.50	1.41E+05	7.08E+03
7/24/2018 7:18:39	41.40	38.50	40.20	43.90	37.40	68.60	40.10	42.50	38.10	43.90	37.40	2.45E+04	5.50E+03
7/24/2018 7:19:39	42.60	39.50	41.30	50.00	38.40	72.20	41.30	43.90	38.80	50.00	38.40	1.00E+05	6.92E+03
7/24/2018 7:20:39	52.50	39.30	49.40	72.40	38.20	94.70	49.20	63.90	38.60	72.40	38.20	1.74E+07	6.61E+03
7/24/2018 7:21:39	48.80	42.10	45.70	50.20	40.80	70.80	45.80	50.70	41.30	50.20	40.80	1.05E+05	1.20E+04
7/24/2018 7:22:39	42.10	37.50	39.80	48.10	36.00	68.60	39.70	45.20	36.80	48.10	36.00	6.46E+04	3.98E+03

7/24/2018 7:23:39	44.90	40.90	43.10	46.10	39.40	67.60	43.00	45.50	40.10	46.10	39.40	4.07E+04	8.71E+03
7/24/2018 7:24:39	43.10	38.70	41.00	43.80	37.60	66.60	41.00	43.30	38.10	43.80	37.60	2.40E+04	5.75E+03
7/24/2018 7:25:39	45.80	40.40	42.80	48.10	38.00	71.90	42.70	47.00	38.50	48.10	38.00	6.46E+04	6.31E+03
7/24/2018 7:26:39	45.90	38.60	43.00	47.80	37.40	71.90	42.80	47.40	38.00	47.80	37.40	6.03E+04	5.50E+03
7/24/2018 7:27:39	45.70	40.00	42.80	47.00	39.10	70.00	42.90	47.30	39.50	47.00	39.10	5.01E+04	8.13E+03
7/24/2018 7:28:39	46.20	41.60	44.20	47.00	40.30	65.10	44.20	46.60	40.70	47.00	40.30	5.01E+04	1.07E+04
7/24/2018 7:29:39	43.70	39.70	41.60	45.10	38.20	63.70	41.60	44.00	39.30	45.10	38.20	3.24E+04	6.61E+03
7/24/2018 7:30:39	42.90	38.10	40.40	44.90	37.20	67.10	40.30	44.50	37.70	44.90	37.20	3.09E+04	5.25E+03
7/24/2018 7:31:39	44.10	42.00	43.00	46.60	41.50	70.10	43.00	44.90	41.70	46.60	41.50	4.57E+04	1.41E+04
7/24/2018 7:32:39	42.80	39.10	40.80	44.50	38.20	68.40	40.80	43.40	38.70	44.50	38.20	2.82E+04	6.61E+03
7/24/2018 7:33:39	44.40	41.30	43.40	47.00	39.80	69.50	43.30	44.30	39.60	47.00	39.80	5.01E+04	9.55E+03
7/24/2018 7:34:39	47.20	42.30	45.30	48.60	40.90	68.90	45.20	47.80	41.60	48.60	40.90	7.24E+04	1.23E+04
7/24/2018 7:35:39	49.00	40.50	44.50	50.40	39.60	70.80	44.30	49.60	40.10	50.40	39.60	1.10E+05	9.12E+03
7/24/2018 7:36:39	47.40	40.40	44.30	50.90	38.70	66.10	44.30	48.80	40.50	50.90	38.70	1.23E+05	7.41E+03
7/24/2018 7:37:39	46.10	41.40	44.00	49.30	40.00	66.90	43.90	46.80	41.60	49.30	40.00	8.51E+04	1.00E+04
7/24/2018 7:38:39	43.70	38.90	41.40	46.60	37.70	71.20	41.40	43.80	39.60	46.60	37.70	4.57E+04	5.89E+03
7/24/2018 7:39:39	44.00	39.90	41.90	47.00	38.20	70.20	41.80	44.70	39.40	47.00	38.20	5.01E+04	6.61E+03
7/24/2018 7:40:39	42.70	39.40	41.40	44.70	38.30	65.30	41.30	43.40	38.80	44.70	38.30	2.95E+04	6.76E+03
7/24/2018 7:41:39	47.70	39.40	43.70	49.80	38.20	67.30	43.60	49.40	39.00	49.80	38.20	9.55E+04	6.61E+03
7/24/2018 7:42:39	43.80	39.70	41.60	46.50	38.60	71.10	41.50	44.50	39.20	46.50	38.60	4.47E+04	7.24E+03
7/24/2018 7:43:39	42.30	39.30	40.90	43.70	37.60	62.70	40.90	42.20	38.80	43.70	37.60	2.34E+04	5.75E+03
7/24/2018 7:44:39	44.70	40.80	42.70	46.10	39.50	64.50	42.60	45.30	40.30	46.10	39.50	4.07E+04	8.91E+03
7/24/2018 7:45:39	44.30	39.10	41.60	46.10	38.50	65.00	41.50	45.60	38.80	46.10	38.50	4.07E+04	7.08E+03
7/24/2018 7:46:39	44.80	40.60	42.90	46.30	38.50	72.50	42.80	45.40	39.00	46.30	38.50	4.27E+04	7.08E+03
7/24/2018 7:47:39	41.70	38.90	40.10	43.90	38.20	67.50	40.00	42.20	38.60	43.90	38.20	2.45E+04	6.61E+03
7/24/2018 7:48:39	43.50	40.20	41.70	44.60	39.10	61.60	41.60	43.80	39.60	44.60	39.10	2.88E+04	8.13E+03
7/24/2018 7:49:39	42.20	39.70	40.90	43.50	38.80	63.80	40.80	42.50	39.30	43.50	38.80	2.24E+04	7.59E+03
7/24/2018 7:50:39	43.20	38.90	40.70	44.50	37.70	69.30	40.60	44.00	38.10	44.50	37.70	2.82E+04	5.89E+03
7/24/2018 7:51:39	43.30	39.50	41.70	45.60	38.30	68.30	41.60	43.80	38.80	45.60	38.30	3.63E+04	6.76E+03
7/24/2018 7:52:39	42.40	40.50	41.40	43.30	39.50	66.10	41.30	42.60	40.10	43.30	39.50	2.14E+04	8.91E+03
7/24/2018 7:53:39	42.60	39.80	41.10	46.00	38.90	65.10	41.00	44.40	39.40	46.00	38.90	3.98E+04	7.76E+03
7/24/2018 7:54:39	46.00	39.30	42.90	51.10	38.10	66.40	42.80	47.70	38.70	51.10	38.10	1.29E+05	6.46E+03
7/24/2018 7:55:39	47.60	41.30	45.00	51.50	40.00	64.70	44.80	49.80	41.50	51.50	40.00	1.41E+05	1.00E+04
7/24/2018 7:56:39	52.50	43.10	49.20	56.10	40.70	70.50	49.20	55.40	42.90	56.10	40.70	4.07E+05	1.17E+04
7/24/2018 7:57:39	49.90	44.10	47.70	52.70	40.90	66.60	47.60	50.00	43.60	52.70	40.90	1.86E+05	1.23E+04
7/24/2018 7:58:39	48.90	39.90	45.70	51.70	37.00	68.30	45.70	48.10	41.70	51.70	37.00	1.48E+05	5.01E+03
7/24/2018 7:59:39	41.80	38.30	40.60	47.00	36.90	65.40	40.50	44.90	37.60	47.00	36.90	5.01E+04	4.90E+03
7/24/2018 8:00:39	52.40	43.80	48.30	54.30	42.70	68.30	48.10	53.50	43.00	54.30	42.70	2.69E+05	1.86E+04
7/24/2018 8:01:39	49.40	41.00	45.50	53.20	39.80	73.80	45.80	52.70	40.10	53.20	39.80	2.09E+05	9.55E+03
7/24/2018 8:02:39	41.90	39.70	40.60	43.70	39.10	59.40	40.60	43.20	39.40	43.70	39.10	2.34E+04	8.13E+03
7/24/2018 8:03:39	44.00	40.90	42.10	45.40	39.70	62.60	42.00	44.50	40.20	45.40	39.70	3.47E+04	9.33E+03
7/24/2018 8:04:39	44.70	42.90	43.70	48.80	42.20	63.80	43.70	45.90	42.60	48.80	42.20	7.59E+04	1.66E+04
7/24/2018 8:05:39	43.40	39.90	41.80	44.50	38.90	70.00	41.80	43.50	39.30	44.50	38.90	2.82E+04	7.76E+03
7/24/2018 8:06:39	44.10	41.80	42.90	45.30	40.80	64.30	42.80	44.90	41.10	45.30	40.80	3.39E+04	1.20E+04
7/24/2018 8:07:39	42.90	40.60	41.50	43.50	40.00	64.00	41.50	43.20	40.30	43.50	40.00	2.24E+04	1.00E+04
7/24/2018 8:08:39	44.50	42.10	43.20	45.10	40.80	66.70	43.20	44.70	41.30	45.10	40.80	3.24E+04	1.20E+04
7/24/2018 8:09:39	46.00	41.30	43.40	48.90	39.20	72.10	43.30	46.40	41.10	48.90	39.20	7.76E+04	8.32E+03

7/24/2018 8:10:39	46.40	39.50	43.30	49.30	38.30	67.30	43.20	45.00	40.70	49.30	38.30	8.51E+04	6.76E+03
7/24/2018 8:11:39	48.40	42.60	45.90	51.50	38.60	69.40	45.80	49.20	40.80	51.50	38.60	1.41E+05	7.24E+03
7/24/2018 8:12:39	48.00	42.40	45.30	50.70	40.90	63.70	45.20	48.70	43.40	50.70	40.90	1.17E+05	1.23E+04
7/24/2018 8:13:39	47.60	41.50	45.30	49.90	39.90	64.50	45.30	47.90	42.00	49.90	39.90	9.77E+04	9.77E+03
7/24/2018 8:14:39	43.00	38.40	41.00	46.80	37.30	62.70	41.00	44.10	38.00	46.80	37.30	4.79E+04	5.37E+03
7/24/2018 8:15:39	42.90	39.90	41.50	45.30	38.00	65.20	41.50	43.20	38.50	45.30	38.00	3.39E+04	6.31E+03
7/24/2018 8:16:39	41.80	39.80	40.80	43.40	39.00	65.10	40.70	42.30	39.40	43.40	39.00	2.19E+04	7.94E+03
7/24/2018 8:17:39	47.10	41.50	44.10	47.60	39.60	66.30	44.00	47.20	40.00	47.60	39.60	5.75E+04	9.12E+03
7/24/2018 8:18:39	46.90	39.00	43.30	47.60	38.00	69.00	43.30	47.10	38.40	47.60	38.00	5.75E+04	6.31E+03
7/24/2018 8:19:39	42.60	39.30	41.20	43.60	38.40	65.10	41.10	43.20	38.60	43.60	38.40	2.29E+04	6.92E+03
7/24/2018 8:20:39	42.10	40.50	41.20	44.80	39.80	66.60	41.10	43.50	40.20	44.80	39.80	3.02E+04	9.55E+03
7/24/2018 8:21:39	43.90	41.00	42.40	44.90	40.30	65.70	42.30	44.40	40.80	44.90	40.30	3.09E+04	1.07E+04
7/24/2018 8:22:39	41.40	38.60	40.10	44.20	37.80	69.50	40.10	42.20	38.10	44.20	37.80	2.63E+04	6.03E+03
7/24/2018 8:23:39	48.00	41.60	46.10	48.60	39.50	66.40	46.00	48.30	39.80	48.60	39.50	7.24E+04	8.91E+03
7/24/2018 8:24:39	53.20	44.70	50.10	55.00	42.70	67.60	50.00	54.40	43.20	55.00	42.70	3.16E+05	1.86E+04
7/24/2018 8:25:39	45.70	41.10	43.20	46.50	40.00	61.60	43.20	46.10	40.50	46.50	40.00	4.47E+04	1.00E+04
7/24/2018 8:26:39	43.60	41.20	42.40	47.20	40.00	64.30	42.20	46.30	40.40	47.20	40.00	5.25E+04	1.00E+04
7/24/2018 8:27:39	45.80	42.70	44.30	47.60	41.50	63.90	44.30	47.00	41.90	47.60	41.50	5.75E+04	1.41E+04
7/24/2018 8:28:39	46.60	41.40	44.70	48.00	40.20	66.20	44.60	47.50	40.60	48.00	40.20	6.31E+04	1.05E+04
7/24/2018 8:29:39	49.80	43.60	47.10	51.30	42.60	65.50	47.10	50.70	42.90	51.30	42.60	1.35E+05	1.82E+04
7/24/2018 8:30:39	44.50	40.90	42.80	44.90	39.90	60.00	42.80	45.30	40.20	44.90	39.90	3.09E+04	9.77E+03
7/24/2018 8:31:39	44.40	41.40	42.70	45.00	40.70	63.50	42.70	44.60	41.00	45.00	40.70	3.16E+04	1.17E+04
7/24/2018 8:32:39	44.70	41.60	43.00	45.90	40.30	62.30	43.00	45.40	40.70	45.90	40.30	3.89E+04	1.07E+04
7/24/2018 8:33:39	45.70	41.90	43.70	48.00	40.50	60.60	43.70	46.00	41.20	48.00	40.50	6.31E+04	1.12E+04
7/24/2018 8:34:39	43.80	41.40	42.50	47.30	40.60	67.70	42.50	45.30	41.30	47.30	40.60	5.37E+04	1.15E+04
7/24/2018 8:35:39	44.80	39.70	42.20	47.10	37.60	60.40	42.10	46.30	38.60	47.10	37.60	5.13E+04	5.75E+03
7/24/2018 8:36:39	43.10	40.80	41.80	43.70	40.00	57.80	41.80	44.00	40.50	43.70	40.00	2.34E+04	1.00E+04
7/24/2018 8:37:39	41.30	37.60	39.50	43.00	36.50	69.40	39.50	42.20	37.40	43.00	36.50	2.00E+04	4.47E+03
7/24/2018 8:38:39	41.80	39.00	40.20	44.40	37.90	68.40	40.10	42.00	38.40	44.40	37.90	2.75E+04	6.17E+03
7/24/2018 8:39:39	43.10	38.50	40.80	45.30	37.00	64.30	40.70	43.70	38.10	45.30	37.00	3.39E+04	5.01E+03
7/24/2018 8:40:39	46.60	39.50	43.50	50.30	37.50	63.70	43.50	47.60	39.00	50.30	37.50	1.07E+05	5.62E+03
7/24/2018 8:41:39	48.70	38.40	44.60	50.80	36.50	63.80	44.50	50.40	38.00	50.80	36.50	1.20E+05	4.47E+03
7/24/2018 8:42:39	46.10	42.40	44.40	47.10	40.40	63.90	44.40	46.30	41.20	47.10	40.40	5.13E+04	1.10E+04
7/24/2018 8:43:39	42.50	38.80	40.50	45.60	37.50	61.70	40.50	43.50	38.50	45.60	37.50	3.63E+04	5.62E+03
7/24/2018 8:44:39	41.90	38.10	40.00	45.30	36.90	60.80	39.90	43.20	38.00	45.30	36.90	3.39E+04	4.90E+03
7/24/2018 8:45:39	42.90	38.80	40.90	44.50	37.50	66.80	40.80	43.60	38.70	44.50	37.50	2.82E+04	5.62E+03
7/24/2018 8:46:39	45.20	38.50	42.10	49.10	36.80	64.70	42.00	45.10	39.00	49.10	36.80	8.13E+04	4.79E+03
7/24/2018 8:47:39	46.60	39.60	44.00	50.60	37.00	64.10	43.90	47.10	38.00	50.60	37.00	1.15E+05	5.01E+03
7/24/2018 8:48:39	46.90	40.60	44.40	50.40	37.80	64.60	44.30	47.60	41.70	50.40	37.80	1.10E+05	6.03E+03
7/24/2018 8:49:39	45.80	38.00	42.90	53.60	36.50	68.20	42.80	48.80	37.50	53.60	36.50	2.29E+05	4.47E+03
7/24/2018 8:50:39	42.80	39.30	41.30	44.90	38.10	61.60	41.20	43.30	38.80	44.90	38.10	3.09E+04	6.46E+03
7/24/2018 8:51:39	42.60	37.70	40.10	46.40	36.70	65.80	40.00	43.80	37.20	46.40	36.70	4.37E+04	4.68E+03
7/24/2018 8:52:39	45.40	39.30	42.60	49.10	38.10	62.70	42.60	46.90	38.70	49.10	38.10	8.13E+04	6.46E+03
7/24/2018 8:53:39	45.20	41.40	43.10	47.40	40.30	59.70	43.00	45.80	40.70	47.40	40.30	5.50E+04	1.07E+04
7/24/2018 8:54:39	43.90	39.40	41.80	47.60	37.90	65.90	41.70	44.00	39.80	47.60	37.90	5.75E+04	6.17E+03
7/24/2018 8:55:39	45.00	39.70	42.50	51.50	38.90	66.20	42.50	48.30	39.20	51.50	38.90	1.41E+05	7.76E+03
7/24/2018 8:56:39	43.50	40.00	41.80	46.40	38.30	59.20	41.80	43.90	39.30	46.40	38.30	4.37E+04	6.76E+03

7/24/2018 8:57:39	44.00	39.90	42.20	47.00	38.30	65.80	42.10	44.40	39.20	47.00	38.30	5.01E+04	6.76E+03
7/24/2018 8:58:39	43.70	37.30	42.30	54.90	36.10	67.90	42.20	51.90	37.20	54.90	36.10	3.09E+05	4.07E+03
7/24/2018 8:59:39	49.50	37.60	46.00	57.80	36.00	70.00	45.90	54.40	37.10	57.80	36.00	6.03E+05	3.98E+03
7/24/2018 9:00:39	43.60	40.30	41.90	45.10	38.10	67.60	41.90	45.10	39.40	45.10	38.10	3.24E+04	6.46E+03
7/24/2018 9:01:39	45.00	40.30	42.40	47.90	38.70	61.20	42.40	46.30	39.80	47.90	38.70	6.17E+04	7.41E+03
7/24/2018 9:02:39	43.00	37.20	40.90	47.80	35.60	62.90	40.80	43.60	36.40	47.80	35.60	6.03E+04	3.63E+03
7/24/2018 9:03:39	43.30	39.60	41.60	45.40	37.70	59.50	41.50	43.80	38.90	45.40	37.70	3.47E+04	5.89E+03
7/24/2018 9:04:39	47.00	41.80	44.90	48.70	40.40	65.90	44.80	47.60	41.10	48.70	40.40	7.41E+04	1.10E+04
7/24/2018 9:05:39	46.30	40.80	43.80	49.80	37.50	62.60	43.80	47.40	40.50	49.80	37.50	9.55E+04	5.62E+03
7/24/2018 9:06:39	44.60	39.80	42.40	47.50	37.50	70.50	42.30	45.40	39.80	47.50	37.50	5.62E+04	5.62E+03
7/24/2018 9:07:39	46.30	40.70	44.00	52.80	38.50	65.60	43.90	47.60	40.60	52.80	38.50	1.91E+05	7.08E+03
7/24/2018 9:08:39	47.20	41.30	45.30	54.70	38.70	67.10	45.20	48.80	40.60	54.70	38.70	2.95E+05	7.41E+03
7/24/2018 9:09:39	45.30	36.80	42.70	55.00	35.10	67.90	42.60	48.40	36.90	55.00	35.10	3.16E+05	3.24E+03
7/24/2018 9:10:39	44.60	35.80	42.30	57.50	34.10	68.60	42.20	50.60	35.90	57.50	34.10	5.62E+05	2.57E+03
7/24/2018 9:11:39	46.40	40.00	44.20	56.30	38.00	67.90	44.20	50.50	38.70	56.30	38.00	4.27E+05	6.31E+03
7/24/2018 9:12:39	47.40	38.40	45.40	60.20	37.40	72.20	45.20	53.10	38.90	60.20	37.40	1.05E+06	5.50E+03
7/24/2018 9:13:39	46.80	41.20	45.60	59.00	40.40	70.50	45.60	52.20	40.90	59.00	40.40	7.94E+05	1.10E+04
7/24/2018 9:14:39	45.10	36.70	43.30	59.00	35.60	70.00	42.80	52.00	36.60	59.00	35.60	7.94E+05	3.63E+03
7/24/2018 9:15:39	45.80	35.90	43.60	57.70	35.00	69.00	43.70	50.80	36.60	57.70	35.00	5.89E+05	3.16E+03
7/24/2018 9:16:39	50.60	37.20	46.40	60.70	36.30	71.50	46.50	54.50	38.40	60.70	36.30	1.17E+06	4.27E+03
7/24/2018 9:17:39	52.40	37.70	47.20	58.80	36.50	72.10	47.00	52.60	40.30	58.80	36.50	7.59E+05	4.47E+03
7/24/2018 9:18:39	53.70	40.60	48.90	59.10	38.80	71.50	48.80	52.80	42.00	59.10	38.80	8.13E+05	7.59E+03
7/24/2018 9:19:39	52.10	37.50	47.70	58.80	36.10	72.00	47.70	52.30	38.30	58.80	36.10	7.59E+05	4.07E+03
7/24/2018 9:20:39	52.00	36.10	46.80	59.10	34.70	71.40	46.60	52.10	38.00	59.10	34.70	8.13E+05	2.95E+03
7/24/2018 9:21:39	53.00	35.90	47.70	59.90	34.50	71.20	47.50	55.00	36.60	59.90	34.50	9.77E+05	2.82E+03
7/24/2018 9:22:39	49.90	40.40	46.40	54.80	38.60	67.20	46.60	53.60	39.70	54.80	38.60	3.02E+05	7.24E+03
7/24/2018 9:23:39	46.20	37.80	43.50	54.40	36.10	65.40	43.50	47.60	37.20	54.40	36.10	2.75E+05	4.07E+03
7/24/2018 9:24:39	46.90	42.50	45.00	52.70	41.30	65.10	44.90	47.50	41.90	52.70	41.30	1.86E+05	1.35E+04
7/24/2018 9:25:39	47.20	38.60	45.50	58.50	37.00	69.20	45.50	52.50	39.10	58.50	37.00	7.08E+05	5.01E+03
7/24/2018 9:26:39	48.70	39.20	46.90	62.90	37.60	74.00	46.80	55.40	39.10	62.90	37.60	1.95E+06	5.75E+03
7/24/2018 9:27:39	50.60	41.30	48.00	66.40	39.30	77.10	47.90	59.00	42.50	66.40	39.30	4.37E+06	8.51E+03
7/24/2018 9:28:39	47.90	42.70	46.80	59.90	40.90	71.70	46.90	53.50	43.10	59.90	40.90	9.77E+05	1.23E+04
7/24/2018 9:29:39	44.60	39.20	42.20	49.10	37.70	61.80	42.20	44.20	39.70	49.10	37.70	8.13E+04	5.89E+03
7/24/2018 9:30:39	42.90	37.40	40.10	46.60	36.60	65.40	40.00	43.90	37.00	46.60	36.60	4.57E+04	4.57E+03
7/24/2018 9:31:39	45.70	40.80	43.40	49.00	39.00	61.50	43.30	47.10	40.50	49.00	39.00	7.94E+04	7.94E+03
7/24/2018 9:32:39	46.40	39.70	43.90	48.60	38.40	67.20	44.00	47.30	39.00	48.60	38.40	7.24E+04	6.92E+03
7/24/2018 9:33:39	44.60	36.80	39.80	47.90	36.10	70.30	39.60	45.00	36.50	47.90	36.10	6.17E+04	4.07E+03
7/24/2018 9:34:39	43.80	37.90	41.80	47.60	36.40	60.10	41.80	45.40	37.60	47.60	36.40	5.75E+04	4.37E+03
7/24/2018 9:35:39	41.00	37.40	39.60	49.40	35.90	60.10	39.50	44.00	37.00	49.40	35.90	8.71E+04	3.89E+03
7/24/2018 9:36:39	45.00	41.20	43.00	46.00	40.30	64.40	42.90	45.50	40.70	46.00	40.30	3.98E+04	1.07E+04
7/24/2018 9:37:39	42.40	37.60	40.00	45.50	36.50	62.20	39.90	42.90	37.40	45.50	36.50	3.55E+04	4.47E+03
7/24/2018 9:38:39	44.10	38.00	41.00	45.10	36.60	57.80	41.00	44.50	37.30	45.10	36.60	3.24E+04	4.57E+03
7/24/2018 9:39:39	47.50	38.50	44.00	48.10	37.20	63.70	43.80	47.70	37.40	48.10	37.20	6.46E+04	5.25E+03
7/24/2018 9:40:39	46.90	41.70	44.30	47.90	40.50	65.10	44.30	47.70	41.20	47.90	40.50	6.17E+04	1.12E+04
7/24/2018 9:41:39	44.50	39.20	41.90	47.80	38.10	61.40	41.90	44.60	38.90	47.80	38.10	6.03E+04	6.46E+03
7/24/2018 9:42:39	49.90	41.10	46.20	51.90	39.30	69.90	46.10	50.70	40.60	51.90	39.30	1.55E+05	8.51E+03
7/24/2018 9:43:39	49.50	43.00	46.80	54.10	40.70	66.90	46.80	50.10	43.40	54.10	40.70	2.57E+05	1.17E+04

7/24/2018 9:44:39	47.30	41.10	44.40	52.40	39.40	71.40	44.30	47.30	42.30	52.40	39.40	1.74E+05	8.71E+03
7/24/2018 9:45:39	45.00	40.40	42.80	49.00	39.60	61.50	42.80	46.00	40.00	49.00	39.60	7.94E+04	9.12E+03
7/24/2018 9:46:39	49.20	41.50	45.50	53.30	40.10	72.10	45.40	49.80	40.40	53.30	40.10	2.14E+05	1.02E+04
7/24/2018 9:47:39	51.80	45.40	49.90	54.40	43.70	79.50	49.80	52.70	44.00	54.40	43.70	2.75E+05	2.34E+04
7/24/2018 9:48:39	50.00	41.00	45.90	51.30	40.00	62.60	45.90	50.30	40.50	51.30	40.00	1.35E+05	1.00E+04
7/24/2018 9:49:39	45.40	41.60	43.50	46.10	40.80	64.50	43.50	45.70	41.10	46.10	40.80	4.07E+04	1.20E+04
7/24/2018 9:50:39	47.80	40.80	44.40	49.10	40.00	61.30	44.30	48.50	40.40	49.10	40.00	8.13E+04	1.00E+04
7/24/2018 9:51:39	57.80	47.50	54.30	59.80	42.90	72.80	54.20	59.30	43.10	59.80	42.90	9.55E+05	1.95E+04
7/24/2018 9:52:39	49.70	44.20	47.70	52.40	43.30	65.10	47.80	51.50	43.60	52.40	43.30	1.74E+05	2.14E+04
7/24/2018 9:53:39	51.00	41.20	47.40	51.80	40.40	65.60	47.40	51.20	40.90	51.80	40.40	1.51E+05	1.10E+04
7/24/2018 9:54:39	44.00	40.80	42.60	50.00	39.60	61.20	42.50	46.80	40.10	50.00	39.60	1.00E+05	9.12E+03
7/24/2018 9:55:39	51.60	43.50	47.90	53.10	41.90	65.40	47.80	52.60	42.30	53.10	41.90	2.04E+05	1.55E+04
7/24/2018 9:56:39	42.20	39.90	40.90	44.30	38.80	58.50	40.90	42.50	39.20	44.30	38.80	2.69E+04	7.59E+03
7/24/2018 9:57:39	44.80	42.10	43.50	48.60	40.40	61.00	43.50	45.90	41.00	48.60	40.40	7.24E+04	1.10E+04
7/24/2018 9:58:39	46.70	41.00	44.60	51.50	40.20	65.10	44.30	50.60	40.50	51.50	40.20	1.41E+05	1.05E+04
7/24/2018 9:59:39	51.10	45.80	48.60	52.40	44.20	67.80	48.60	51.60	44.80	52.40	44.20	1.74E+05	2.63E+04
7/24/2018 10:00:39	50.40	43.30	47.20	51.70	42.20	64.50	47.10	51.30	42.50	51.70	42.20	1.48E+05	1.66E+04
7/24/2018 10:01:39	51.10	46.20	49.10	52.70	45.10	67.00	49.10	52.10	45.60	52.70	45.10	1.86E+05	3.24E+04
7/24/2018 10:02:39	48.00	43.20	46.10	48.80	41.90	73.30	46.10	48.20	42.40	48.80	41.90	7.59E+04	1.55E+04
7/24/2018 10:03:39	54.70	47.40	51.80	56.30	45.30	75.60	51.70	55.50	44.80	56.30	45.30	4.27E+05	3.39E+04
7/24/2018 10:04:39	51.70	47.00	49.60	52.80	46.10	76.60	49.40	52.20	46.50	52.80	46.10	1.91E+05	4.07E+04
7/24/2018 10:05:39	58.90	51.80	55.30	61.00	51.00	80.80	55.10	60.40	51.30	61.00	51.00	1.26E+06	1.26E+05
7/24/2018 10:06:39	57.20	53.60	55.80	59.20	51.50	77.30	55.90	59.00	51.80	59.20	51.50	8.32E+05	1.41E+05
7/24/2018 10:07:39	59.00	52.00	58.60	81.90	51.10	104.00	58.60	73.30	51.50	81.90	51.10	1.55E+08	1.29E+05
7/24/2018 10:08:39	56.40	52.10	55.20	59.00	50.60	80.50	55.20	56.80	51.30	59.00	50.60	7.94E+05	1.15E+05
7/24/2018 10:09:39	53.30	50.20	55.10	75.90	49.10	99.10	55.10	67.10	50.00	75.90	49.10	3.89E+07	8.13E+04
7/24/2018 10:10:39	49.70	46.40	47.90	58.80	45.30	80.70	47.90	51.40	46.40	58.80	45.30	7.59E+05	3.39E+04
7/24/2018 10:11:39	47.30	44.70	46.10	50.70	43.50	73.50	46.00	47.70	44.50	50.70	43.50	1.17E+05	2.24E+04
7/24/2018 10:12:39	50.90	43.40	47.40	55.90	41.60	78.70	47.40	51.90	42.80	55.90	41.60	3.89E+05	1.45E+04
7/24/2018 10:13:39	47.50	43.50	46.00	62.70	41.90	86.10	45.90	55.10	43.30	62.70	41.90	1.86E+06	1.55E+04
7/24/2018 10:14:39	53.90	45.50	50.20	57.80	44.10	78.30	50.10	57.00	44.80	57.80	44.10	6.03E+05	2.57E+04
7/24/2018 10:15:39	59.60	49.60	54.20	60.60	48.40	82.90	54.10	59.90	48.80	60.60	48.40	1.15E+06	6.92E+04
7/24/2018 10:16:39	60.50	55.40	58.30	77.60	54.80	100.40	58.20	68.80	54.90	77.60	54.80	5.75E+07	3.02E+05
7/24/2018 10:17:39	58.80	53.40	56.30	62.20	52.40	84.80	56.30	59.50	52.90	62.20	52.40	1.66E+06	1.74E+05
7/24/2018 10:18:39	56.50	51.50	53.80	57.90	50.20	76.40	53.70	57.30	50.70	57.90	50.20	6.17E+05	1.05E+05
7/24/2018 10:19:39	58.10	54.00	56.40	63.00	53.00	86.50	56.30	59.00	53.40	63.00	53.00	2.00E+06	2.00E+05
7/24/2018 10:20:39	59.40	56.50	59.60	81.10	55.40	103.10	59.50	72.30	55.80	81.10	55.40	1.29E+08	3.47E+05
7/24/2018 10:21:39	62.70	54.70	60.20	78.90	54.10	101.90	60.10	70.70	54.40	78.90	54.10	7.76E+07	2.57E+05
7/24/2018 10:22:39	60.60	57.60	60.10	77.50	56.70	99.00	60.10	69.30	57.20	77.50	56.70	5.62E+07	4.68E+05
7/24/2018 10:23:39	60.80	57.70	61.10	81.80	56.90	103.50	61.00	73.00	57.30	81.80	56.90	1.51E+08	4.90E+05
7/24/2018 10:24:39	59.30	55.50	58.00	74.50	54.80	102.50	58.00	66.00	55.10	74.50	54.80	2.82E+07	3.02E+05
7/24/2018 10:25:39	57.00	54.40	56.60	74.40	53.30	103.60	56.50	65.80	53.90	74.40	53.30	2.75E+07	2.14E+05
7/24/2018 10:26:39	54.20	52.60	53.90	71.00	51.60	92.90	53.90	62.50	52.00	71.00	51.60	1.26E+07	1.45E+05
7/24/2018 10:27:39	55.50	53.40	54.70	66.80	52.80	90.60	54.60	59.20	53.10	66.80	52.80	4.79E+06	1.91E+05
7/24/2018 10:28:39	57.80	56.20	58.00	74.90	55.20	99.50	57.80	66.60	55.50	74.90	55.20	3.09E+07	3.31E+05
7/24/2018 10:29:39	59.30	56.60	58.50	71.60	55.80	98.40	58.60	63.50	56.10	71.60	55.80	1.45E+07	3.80E+05
7/24/2018 10:30:39	58.60	55.50	57.00	64.90	54.60	88.90	57.00	59.00	55.10	64.90	54.60	3.09E+06	2.88E+05

7/24/2018 10:31:39	56.40	54.60	56.30	75.80	53.90	99.60	56.30	67.30	54.30	75.80	53.90	3.80E+07	2.45E+05
7/24/2018 10:32:39	63.70	57.20	62.40	81.90	56.10	105.70	62.40	73.10	56.60	81.90	56.10	1.55E+08	4.07E+05
7/24/2018 10:33:39	58.10	55.10	61.40	85.80	54.20	111.00	61.40	76.90	54.80	85.80	54.20	3.80E+08	2.63E+05
7/24/2018 10:34:39	56.30	53.60	55.10	69.90	52.00	94.00	55.10	62.00	52.60	69.90	52.00	9.77E+06	1.58E+05
7/24/2018 10:35:39	53.00	50.80	52.50	66.80	49.40	90.70	52.50	58.80	50.30	66.80	49.40	4.79E+06	8.71E+04
7/24/2018 10:36:39	55.90	50.40	53.70	68.00	49.50	96.60	53.60	60.00	50.00	68.00	49.50	6.31E+06	8.91E+04
7/24/2018 10:37:39	55.70	52.00	56.50	79.50	51.30	101.90	56.50	70.80	51.60	79.50	51.30	8.91E+07	1.35E+05
7/24/2018 10:38:39	56.70	52.60	54.80	66.10	51.00	93.40	54.80	59.60	51.60	66.10	51.00	4.07E+06	1.26E+05
7/24/2018 10:39:39	64.50	54.70	61.10	71.70	53.50	96.90	60.90	64.90	53.70	71.70	53.50	1.48E+07	2.24E+05
7/24/2018 10:40:39	63.40	58.10	62.10	79.00	56.20	100.80	62.10	70.40	56.70	79.00	56.20	7.94E+07	4.17E+05
7/24/2018 10:41:39	56.10	53.10	54.80	67.50	52.30	91.60	54.80	60.20	52.60	67.50	52.30	5.62E+06	1.70E+05
7/24/2018 10:42:39	54.00	51.80	54.20	74.00	50.10	97.50	54.20	65.40	50.90	74.00	50.10	2.51E+07	1.02E+05
7/24/2018 10:43:39	56.20	50.50	53.00	64.20	49.20	93.60	53.00	56.80	49.90	64.20	49.20	2.63E+06	8.32E+04
7/24/2018 10:44:39	53.00	48.60	51.20	66.90	47.60	91.40	51.10	58.30	48.10	66.90	47.60	4.90E+06	5.75E+04
7/24/2018 10:45:39	47.80	45.50	46.60	53.60	44.50	75.80	46.70	50.60	45.30	53.60	44.50	2.29E+05	2.82E+04
7/24/2018 10:46:39	52.70	45.40	53.80	76.50	43.70	101.80	53.70	68.00	44.30	76.50	43.70	4.47E+07	2.34E+04
7/24/2018 10:47:39	48.00	44.70	46.50	57.70	43.60	78.90	46.40	50.60	44.30	57.70	43.60	5.89E+05	2.29E+04
7/24/2018 10:48:39	47.40	45.00	53.00	78.50	43.90	102.70	52.90	69.60	44.70	78.50	43.90	7.08E+07	2.45E+04
7/24/2018 10:49:39	48.50	42.50	46.50	66.70	41.20	94.50	46.40	57.80	42.30	66.70	41.20	4.68E+06	1.32E+04
7/24/2018 10:50:39	58.00	46.80	54.80	72.10	45.50	95.30	54.70	65.20	46.00	72.10	45.50	1.62E+07	3.55E+04
7/24/2018 10:51:39	53.50	46.60	50.40	55.50	45.20	79.00	50.40	54.70	46.10	55.50	45.20	3.55E+05	3.31E+04
7/24/2018 10:52:39	50.00	44.60	47.50	52.50	43.60	74.90	47.50	50.20	44.20	52.50	43.60	1.78E+05	2.29E+04
7/24/2018 10:53:39	49.80	43.40	46.40	51.30	42.10	71.80	46.40	50.30	43.10	51.30	42.10	1.35E+05	1.62E+04
7/24/2018 10:54:39	48.50	44.80	46.60	50.80	43.70	75.30	46.50	48.70	44.30	50.80	43.70	1.20E+05	2.34E+04
7/24/2018 10:55:39	52.20	44.90	48.50	55.40	43.70	76.00	48.40	53.80	44.60	55.40	43.70	3.47E+05	2.34E+04
7/24/2018 10:56:39	46.60	42.70	45.50	64.70	41.70	86.20	45.60	56.60	42.40	64.70	41.70	2.95E+06	1.48E+04
7/24/2018 10:57:39	43.10	40.70	41.90	46.40	39.60	74.40	41.90	44.60	40.50	46.40	39.60	4.37E+04	9.12E+03
7/24/2018 10:58:39	42.00	39.60	40.80	46.00	38.50	73.80	40.70	42.50	39.40	46.00	38.50	3.98E+04	7.08E+03
7/24/2018 10:59:39	50.50	44.20	47.70	54.10	41.60	82.50	47.60	51.10	41.80	54.10	41.60	2.57E+05	1.45E+04
7/24/2018 11:00:39	49.10	39.40	45.00	59.80	37.90	84.40	45.00	52.40	38.80	59.80	37.90	9.55E+05	6.17E+03
7/24/2018 11:01:39	41.10	39.10	40.10	48.40	37.90	74.40	40.00	42.20	38.90	48.40	37.90	6.92E+04	6.17E+03
7/24/2018 11:02:39	44.80	40.90	43.60	62.20	39.70	83.90	43.60	53.60	40.40	62.20	39.70	1.66E+06	9.33E+03
7/24/2018 11:03:39	47.30	39.90	43.70	57.80	38.60	85.70	43.70	49.90	39.50	57.80	38.60	6.03E+05	7.24E+03
7/24/2018 11:04:39	44.90	38.90	42.30	49.50	38.10	70.70	42.20	45.80	38.70	49.50	38.10	8.91E+04	6.46E+03
7/24/2018 11:05:39	49.80	40.80	47.00	52.60	39.90	73.30	46.90	51.60	40.30	52.60	39.90	1.82E+05	9.77E+03
7/24/2018 11:06:39	43.70	38.60	41.20	51.90	36.70	78.50	41.30	44.60	37.40	51.90	36.70	1.55E+05	4.68E+03
7/24/2018 11:07:39	44.70	38.20	41.30	48.40	36.90	68.10	41.10	46.70	37.70	48.40	36.90	6.92E+04	4.90E+03
7/24/2018 11:08:39	45.60	40.50	43.50	49.80	39.00	70.60	43.50	47.40	39.60	49.80	39.00	9.55E+04	7.94E+03
7/24/2018 11:09:39	43.00	39.80	41.50	44.70	38.60	67.20	41.40	43.30	39.10	44.70	38.60	2.95E+04	7.24E+03
7/24/2018 11:10:39	41.80	38.50	40.00	43.10	37.80	66.00	39.90	42.10	38.20	43.10	37.80	2.04E+04	6.03E+03
7/24/2018 11:11:39	47.50	42.40	44.80	48.80	41.00	72.00	44.70	48.10	40.20	48.80	41.00	7.59E+04	1.26E+04
7/24/2018 11:12:39	49.20	41.60	46.60	62.80	40.10	88.00	46.60	55.70	40.70	62.80	40.10	1.91E+06	1.02E+04
7/24/2018 11:13:39	46.00	40.10	42.40	46.90	39.20	73.10	42.20	46.50	39.70	46.90	39.20	4.90E+04	8.32E+03
7/24/2018 11:14:39	46.80	40.10	43.50	47.80	39.20	67.40	43.60	47.20	39.80	47.80	39.20	6.03E+04	8.32E+03
7/24/2018 11:15:39	43.60	40.10	42.00	46.60	38.90	67.10	42.00	45.60	39.50	46.60	38.90	4.57E+04	7.76E+03
7/24/2018 11:16:39	53.30	40.60	49.00	54.80	39.20	82.10	48.90	54.10	39.70	54.80	39.20	3.02E+05	8.32E+03
7/24/2018 11:17:39	48.50	43.00	46.40	49.80	42.30	69.70	46.20	49.10	42.60	49.80	42.30	9.55E+04	1.70E+04

7/24/2018 11:18:39	46.10	40.80	44.00	49.20	39.80	70.90	44.10	49.00	40.30	49.20	39.80	8.32E+04	9.55E+03
7/24/2018 11:19:39	45.80	39.20	43.20	47.00	38.40	69.40	43.00	46.10	38.70	47.00	38.40	5.01E+04	6.92E+03
7/24/2018 11:20:39	42.40	38.40	40.40	44.20	37.50	70.80	40.50	44.30	38.00	44.20	37.50	2.63E+04	5.62E+03
7/24/2018 11:21:39	40.50	38.10	39.10	42.10	37.40	67.30	39.00	40.90	37.80	42.10	37.40	1.62E+04	5.50E+03
7/24/2018 11:22:39	41.70	37.50	39.90	48.30	36.30	69.30	39.80	43.60	37.40	48.30	36.30	6.76E+04	4.27E+03
7/24/2018 11:23:39	45.60	40.50	43.00	50.00	36.90	71.90	43.00	47.80	40.90	50.00	36.90	1.00E+05	4.90E+03
7/24/2018 11:24:39	43.70	40.20	41.90	46.00	38.80	69.20	41.80	43.70	39.90	46.00	38.80	3.98E+04	7.59E+03
7/24/2018 11:25:39	44.00	39.80	42.50	54.00	39.10	66.90	42.40	50.40	39.30	54.00	39.10	2.51E+05	8.13E+03
7/24/2018 11:26:39	47.70	43.90	45.90	52.40	42.80	71.90	45.80	48.30	42.90	52.40	42.80	1.74E+05	1.91E+04
7/24/2018 11:27:39	44.70	40.80	43.20	46.60	39.90	69.10	43.20	47.10	40.30	46.60	39.90	4.57E+04	9.77E+03
7/24/2018 11:28:39	41.80	37.70	39.80	43.40	36.80	71.10	39.70	42.30	37.80	43.40	36.80	2.19E+04	4.79E+03
7/24/2018 11:29:39	38.90	36.80	37.80	44.90	36.00	67.60	37.80	41.00	36.60	44.90	36.00	3.09E+04	3.98E+03
7/24/2018 11:30:39	42.00	38.00	39.90	43.90	36.80	63.60	39.90	43.30	36.80	43.90	36.80	2.45E+04	4.79E+03
7/24/2018 11:31:39	38.20	36.40	37.30	41.40	35.70	67.20	37.30	38.50	36.10	41.40	35.70	1.38E+04	3.72E+03
7/24/2018 11:32:39	40.40	37.70	39.00	43.30	36.80	67.80	38.90	40.40	37.40	43.30	36.80	2.14E+04	4.79E+03
7/24/2018 11:33:39	41.70	36.60	39.00	46.20	35.60	65.10	38.90	43.00	36.10	46.20	35.60	4.17E+04	3.63E+03
7/24/2018 11:34:39	44.20	39.80	42.30	46.90	38.30	70.90	42.20	43.80	40.30	46.90	38.30	4.90E+04	6.76E+03
7/24/2018 11:35:39	44.10	39.30	42.50	47.20	38.20	74.90	42.40	44.00	38.80	47.20	38.20	5.25E+04	6.61E+03
7/24/2018 11:36:39	44.00	39.60	42.10	49.20	38.60	66.90	42.10	44.50	39.10	49.20	38.60	8.32E+04	7.24E+03
7/24/2018 11:37:39	46.80	41.20	44.30	48.20	40.30	67.30	44.20	47.10	40.80	48.20	40.30	6.61E+04	1.07E+04
7/24/2018 11:38:39	45.70	39.90	43.00	46.40	38.80	68.20	43.00	46.00	39.50	46.40	38.80	4.37E+04	7.59E+03
7/24/2018 11:39:39	45.80	38.50	42.40	47.00	36.70	65.60	42.30	46.50	37.80	47.00	36.70	5.01E+04	4.68E+03
7/24/2018 11:40:39	43.90	39.20	41.30	45.50	38.10	64.50	41.20	44.20	38.50	45.50	38.10	3.55E+04	6.46E+03
7/24/2018 11:41:39	49.60	44.50	47.10	51.50	43.90	71.30	46.90	50.70	44.10	51.50	43.90	1.41E+05	2.45E+04
7/24/2018 11:42:39	52.60	45.30	51.00	53.40	42.70	74.80	51.00	52.80	43.80	53.40	42.70	2.19E+05	1.86E+04
7/24/2018 11:43:39	47.30	43.80	46.10	53.30	42.30	73.80	45.80	52.30	42.90	53.30	42.30	2.14E+05	1.70E+04
7/24/2018 11:44:39	49.80	45.30	48.10	53.80	43.60	77.40	48.20	52.80	44.50	53.80	43.60	2.40E+05	2.29E+04
7/24/2018 11:45:39	46.00	42.50	44.30	48.40	41.00	74.20	44.20	47.30	42.00	48.40	41.00	6.92E+04	1.26E+04
7/24/2018 11:46:39	48.90	40.10	45.20	56.20	38.40	78.30	45.10	50.90	39.60	56.20	38.40	4.17E+05	6.92E+03
7/24/2018 11:47:39	46.50	41.20	43.70	51.20	40.00	78.10	43.80	48.10	41.00	51.20	40.00	1.32E+05	1.00E+04
7/24/2018 11:48:39	43.90	41.00	42.50	46.60	40.20	69.90	42.40	44.20	40.80	46.60	40.20	4.57E+04	1.05E+04
7/24/2018 11:49:39	47.40	42.90	45.10	54.30	41.80	76.90	45.00	49.00	42.40	54.30	41.80	2.69E+05	1.51E+04
7/24/2018 11:50:39	50.80	44.80	47.80	54.80	43.10	75.50	47.70	53.60	43.90	54.80	43.10	3.02E+05	2.04E+04
7/24/2018 11:51:39	50.00	43.50	47.60	53.40	41.40	77.10	47.60	51.30	42.60	53.40	41.40	2.19E+05	1.38E+04
7/24/2018 11:52:39	44.20	39.80	42.60	60.90	38.50	85.00	42.60	52.90	39.90	60.90	38.50	1.23E+06	7.08E+03
7/24/2018 11:53:39	42.20	39.90	41.00	44.80	38.90	72.60	40.90	42.20	39.80	44.80	38.90	3.02E+04	7.76E+03
7/24/2018 11:54:39	45.50	40.10	42.90	48.00	38.50	70.80	42.80	46.80	39.50	48.00	38.50	6.31E+04	7.08E+03
7/24/2018 11:55:39	53.00	41.90	50.30	70.40	39.70	95.00	50.30	61.90	40.50	70.40	39.70	1.10E+07	9.33E+03
7/24/2018 11:56:39	48.50	38.70	45.10	65.60	36.70	89.70	45.00	56.80	37.80	65.60	36.70	3.63E+06	4.68E+03
7/24/2018 11:57:39	46.70	38.10	43.10	49.70	37.00	71.60	43.00	48.10	37.60	49.70	37.00	9.33E+04	5.01E+03
7/24/2018 11:58:39	54.40	37.80	49.90	59.80	36.40	84.60	49.60	56.90	37.00	59.80	36.40	9.55E+05	4.37E+03
7/24/2018 11:59:39	50.60	41.50	46.80	55.80	40.00	73.40	47.30	56.30	40.80	55.80	40.00	3.80E+05	1.00E+04
7/24/2018 12:00:39	41.00	37.00	40.10	59.30	35.60	84.20	40.00	50.80	36.30	59.30	35.60	8.51E+05	3.63E+03

Location 4													Sum ten	Sum ten		
													CountA:	46	7.67E+07	5.26E+05
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min	
7/24/2018 12:32:05	47.10	40.10	51.40	73.30	42.00	93.50	51.30	65.10	42.60	73.30	42.00	2.14E+07	1.58E+04	62.22	40.58	
7/24/2018 12:33:05	59.60	44.20	56.50	74.50	42.80	97.50	56.40	67.00	43.50	74.50	42.80	2.82E+07	1.91E+04			
7/24/2018 12:34:05	47.70	44.30	45.80	53.50	43.00	76.80	45.80	49.80	43.70	53.50	43.00	2.24E+05	2.00E+04			
7/24/2018 12:35:05	46.20	42.40	44.50	58.40	41.50	80.00	44.40	50.10	42.00	58.40	41.50	6.92E+05	1.41E+04			
7/24/2018 12:36:05	53.70	41.70	50.70	69.60	40.50	93.90	50.70	60.50	41.00	69.60	40.50	9.12E+06	1.12E+04			
7/24/2018 12:37:05	46.70	41.20	43.50	50.40	40.20	73.30	43.50	48.80	40.80	50.40	40.20	1.10E+05	1.05E+04			
7/24/2018 12:38:05	53.80	43.30	50.40	68.10	41.50	92.70	50.30	60.70	41.50	68.10	41.50	6.46E+06	1.41E+04			
7/24/2018 12:39:05	50.50	42.50	50.20	67.80	41.50	92.30	50.10	60.10	42.10	67.80	41.50	6.03E+06	1.41E+04			
7/24/2018 12:40:05	46.20	42.50	44.50	47.80	41.00	70.70	44.50	46.70	42.10	47.80	41.00	6.03E+04	1.26E+04			
7/24/2018 12:41:05	44.10	40.70	42.40	45.80	39.30	66.70	42.40	44.50	40.80	45.80	39.30	3.80E+04	8.51E+03			
7/24/2018 12:42:05	43.60	40.40	42.00	47.60	39.10	74.70	41.90	43.60	40.60	47.60	39.10	5.75E+04	8.13E+03			
7/24/2018 12:43:05	47.10	40.90	44.50	55.00	39.50	77.60	44.40	48.40	41.00	55.00	39.50	3.16E+05	8.91E+03			
7/24/2018 12:44:05	44.40	40.10	42.40	46.30	38.00	71.60	42.30	44.80	40.00	46.30	38.00	4.27E+04	6.31E+03			
7/24/2018 12:45:05	48.20	41.30	45.60	52.00	38.10	77.00	45.50	49.90	39.70	52.00	38.10	1.58E+05	6.46E+03			
7/24/2018 12:46:05	44.50	40.80	42.80	47.20	39.20	66.00	42.80	47.00	40.80	47.20	39.20	5.25E+04	8.32E+03			
7/24/2018 12:47:05	43.40	38.80	41.30	51.20	37.60	79.40	41.30	44.70	39.30	51.20	37.60	1.32E+05	5.75E+03			
7/24/2018 12:48:05	42.60	37.80	40.30	44.80	36.10	66.40	40.30	42.10	38.30	44.80	36.10	3.02E+04	4.07E+03			
7/24/2018 12:49:05	42.80	37.30	40.20	45.90	35.90	66.50	40.20	42.90	36.70	45.90	35.90	3.89E+04	3.89E+03			
7/24/2018 12:50:05	42.20	37.10	39.70	44.80	35.30	67.50	39.60	41.70	37.00	44.80	35.30	3.02E+04	3.39E+03			
7/24/2018 12:51:05	41.20	36.10	38.70	44.70	34.70	64.40	38.70	41.80	36.00	44.70	34.70	2.95E+04	2.95E+03			
7/24/2018 12:52:05	40.70	35.20	38.20	44.00	33.80	64.30	38.10	41.40	35.60	44.00	33.80	2.51E+04	2.40E+03			
7/24/2018 12:53:05	43.40	38.60	41.20	47.10	36.50	71.70	41.10	45.60	38.90	47.10	36.50	5.13E+04	4.47E+03			
7/24/2018 12:54:05	42.80	36.80	40.40	45.60	34.70	71.60	40.40	43.80	37.10	45.60	34.70	3.63E+04	2.95E+03			
7/24/2018 12:55:05	42.70	36.90	40.10	45.10	35.20	69.20	40.00	43.70	37.60	45.10	35.20	3.24E+04	3.31E+03			
7/24/2018 12:56:05	45.90	36.90	42.60	48.20	35.00	65.40	42.60	47.00	37.20	48.20	35.00	6.61E+04	3.16E+03			
7/24/2018 12:57:05	42.20	37.30	40.00	44.60	35.20	65.70	39.90	42.30	37.20	44.60	35.20	2.88E+04	3.31E+03			
7/24/2018 12:58:05	43.40	37.30	40.60	45.40	36.30	64.90	40.60	43.90	37.60	45.40	36.30	3.47E+04	4.27E+03			
7/24/2018 12:59:05	45.10	39.10	43.20	48.70	36.40	68.60	43.00	47.70	37.80	48.70	36.40	7.41E+04	4.37E+03			
7/24/2018 13:00:05	46.30	42.00	44.40	48.60	40.80	69.50	44.40	47.90	41.40	48.60	40.80	7.24E+04	1.20E+04			
7/24/2018 13:01:05	44.50	41.30	43.00	47.00	40.10	67.30	43.00	45.10	41.10	47.00	40.10	5.01E+04	1.02E+04			
7/24/2018 13:02:05	45.10	41.90	43.60	46.60	40.60	70.20	43.60	45.40	41.60	46.60	40.60	4.57E+04	1.15E+04			
7/24/2018 13:03:05	42.60	39.20	41.00	44.90	37.70	69.20	41.00	42.60	38.80	44.90	37.70	3.09E+04	5.89E+03			
7/24/2018 13:04:05	41.80	38.00	40.10	44.90	37.00	66.70	40.10	42.50	38.20	44.90	37.00	3.09E+04	5.01E+03			
7/24/2018 13:05:05	42.80	38.30	40.70	46.00	36.80	64.80	40.60	43.10	37.60	46.00	36.80	3.98E+04	4.79E+03			
7/24/2018 13:06:05	41.90	37.70	40.50	46.30	36.50	67.40	40.40	42.60	37.10	46.30	36.50	4.27E+04	4.47E+03			
7/24/2018 13:07:05	41.70	39.10	40.50	45.40	37.90	65.50	40.40	42.80	38.90	45.40	37.90	3.47E+04	6.17E+03			
7/24/2018 13:08:05	47.10	39.10	42.80	51.00	38.10	65.90	42.50	50.20	38.80	51.00	38.10	1.26E+05	6.46E+03			
7/24/2018 13:09:05	53.40	44.00	49.40	54.40	43.10	71.50	49.40	53.90	43.40	54.40	43.10	2.75E+05	2.04E+04			
7/24/2018 13:10:05	53.40	47.00	50.30	54.80	45.90	70.60	50.30	54.20	46.20	54.80	45.90	3.02E+05	3.89E+04			
7/24/2018 13:11:05	48.00	43.00	45.60	51.50	42.40	65.10	45.40	50.90	42.80	51.50	42.40	1.41E+05	1.74E+04			
7/24/2018 13:12:05	55.90	48.10	51.90	57.80	47.30	70.40	51.90	57.40	47.60	57.80	47.30	6.03E+05	5.37E+04			
7/24/2018 13:13:05	54.40	46.00	50.70	59.10	44.70	79.90	50.70	56.10	45.10	59.10	44.70	8.13E+05	2.95E+04			
7/24/2018 13:14:05	46.60	42.70	45.00	48.00	41.60	65.90	45.00	46.80	42.00	48.00	41.60	6.31E+04	1.45E+04			

7/24/2018 13:15:05	52.50	44.70	48.60	54.40	43.30	66.40	48.60	53.70	43.80	54.40	43.30	2.75E+05	2.14E+04
7/24/2018 13:16:05	51.50	45.40	49.50	52.40	44.50	67.00	49.40	51.70	44.80	52.40	44.50	1.74E+05	2.82E+04
7/24/2018 13:17:05	45.40	40.40	42.50	48.70	39.40	65.40	42.70	48.30	39.80	48.70	39.40	7.41E+04	8.71E+03

Location 5													Sum ten	Sum ten		
													CountA:	45	5.58E+08	2.95E+05
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min	
7/23/2018 12:46:39	45.00	18.50	44.40	52.50	38.00	73.20	44.30	46.40	41.30	52.50	38.00	1.78E+05	6.31E+03	70.93	38.17	
7/23/2018 12:47:39	48.00	39.20	45.00	55.70	37.30	69.60	44.90	51.10	41.40	55.70	37.30	3.72E+05	5.37E+03			
7/23/2018 12:48:39	52.70	39.80	50.10	68.10	37.00	84.90	49.80	61.40	41.90	68.10	37.00	6.46E+06	5.01E+03			
7/23/2018 12:49:39	49.40	40.80	48.50	69.70	37.60	94.70	48.80	61.00	41.40	69.70	37.60	9.33E+06	5.75E+03			
7/23/2018 12:50:39	48.20	41.20	45.20	55.50	39.00	73.30	45.10	49.50	43.00	55.50	39.00	3.55E+05	7.94E+03			
7/23/2018 12:51:39	49.20	41.20	46.20	57.90	39.10	70.90	46.10	53.00	42.40	57.90	39.10	6.17E+05	8.13E+03			
7/23/2018 12:52:39	49.00	40.30	45.90	58.60	37.30	82.10	45.90	51.60	41.70	58.60	37.30	7.24E+05	5.37E+03			
7/23/2018 12:53:39	49.60	40.40	46.30	57.20	38.30	74.90	46.20	53.40	41.30	57.20	38.30	5.25E+05	6.76E+03			
7/23/2018 12:54:39	52.90	43.80	50.30	67.00	40.20	93.70	50.20	58.80	42.60	67.00	40.20	5.01E+06	1.05E+04			
7/23/2018 12:55:39	47.50	39.50	44.90	49.90	35.00	69.70	44.90	47.00	39.80	49.90	35.00	9.77E+04	3.16E+03			
7/23/2018 12:56:39	52.70	37.70	47.80	64.60	35.10	89.90	47.70	56.80	37.50	64.60	35.10	2.88E+06	3.24E+03			
7/23/2018 12:57:39	53.00	47.30	51.30	61.50	45.20	89.60	51.20	54.70	46.00	61.50	45.20	1.41E+06	3.31E+04			
7/23/2018 12:58:39	54.20	44.60	49.40	63.10	43.50	87.90	49.50	57.30	44.20	63.10	43.50	2.04E+06	2.24E+04			
7/23/2018 12:59:39	48.40	40.90	45.20	53.70	39.50	74.20	45.00	50.50	40.80	53.70	39.50	2.34E+05	8.91E+03			
7/23/2018 13:00:39	49.10	40.90	45.20	54.00	39.60	77.40	45.20	50.10	40.30	54.00	39.60	2.51E+05	9.12E+03			
7/23/2018 13:01:39	55.90	41.20	52.10	62.30	40.00	73.80	52.00	59.20	40.80	62.30	40.00	1.70E+06	1.00E+04			
7/23/2018 13:02:39	40.80	37.80	39.60	46.40	36.60	62.90	39.70	44.30	37.30	46.40	36.60	4.37E+04	4.57E+03			
7/23/2018 13:03:39	38.00	35.50	36.80	39.10	34.60	64.30	36.70	38.30	35.10	39.10	34.60	8.13E+03	2.88E+03			
7/23/2018 13:04:39	48.30	35.90	43.80	52.30	35.10	75.80	43.40	50.80	35.60	52.30	35.10	1.70E+05	3.24E+03			
7/23/2018 13:05:39	46.60	39.70	44.10	58.80	38.80	86.40	44.30	53.10	39.10	58.80	38.80	7.59E+05	7.59E+03			
7/23/2018 13:06:39	40.50	37.00	39.50	47.10	35.50	63.20	39.40	44.30	36.00	47.10	35.50	5.13E+04	3.55E+03			
7/23/2018 13:07:39	39.80	36.30	38.30	42.60	35.50	65.60	38.20	40.20	35.90	42.60	35.50	1.82E+04	3.55E+03			
7/23/2018 13:08:39	38.20	35.20	36.80	42.10	34.10	56.90	36.80	40.00	34.60	42.10	34.10	1.62E+04	2.57E+03			
7/23/2018 13:09:39	41.40	34.70	38.30	47.70	33.60	64.80	38.20	42.70	34.30	47.70	33.60	5.89E+04	2.29E+03			
7/23/2018 13:10:39	39.90	36.60	38.30	43.70	35.30	71.00	38.30	39.90	36.10	43.70	35.30	2.34E+04	3.39E+03			
7/23/2018 13:11:39	39.40	36.00	38.10	48.40	34.80	68.10	37.90	44.00	35.50	48.40	34.80	6.92E+04	3.02E+03			
7/23/2018 13:12:39	40.20	36.20	38.30	46.70	34.90	62.80	38.40	42.20	36.40	46.70	34.90	4.68E+04	3.09E+03			
7/23/2018 13:13:39	40.30	36.80	38.50	47.70	35.70	67.10	38.40	41.50	37.00	47.70	35.70	5.89E+04	3.72E+03			
7/23/2018 13:14:39	40.70	37.20	39.10	49.10	36.00	59.80	39.00	45.00	37.00	49.10	36.00	8.13E+04	3.98E+03			
7/23/2018 13:15:39	41.50	37.80	39.70	45.30	36.70	61.20	39.70	42.40	37.80	45.30	36.70	3.39E+04	4.68E+03			
7/23/2018 13:16:39	41.60	36.50	39.30	44.90	35.30	58.40	39.10	42.20	36.30	44.90	35.30	3.09E+04	3.39E+03			
7/23/2018 13:17:39	43.00	39.30	41.20	47.10	37.70	61.10	41.20	43.60	39.00	47.10	37.70	5.13E+04	5.89E+03			
7/23/2018 13:18:39	45.40	38.70	42.30	49.80	36.20	66.20	42.20	45.10	40.10	49.80	36.20	9.55E+04	4.17E+03			
7/23/2018 13:19:39	44.20	37.90	41.10	48.80	36.50	62.50	41.10	44.50	37.90	48.80	36.50	7.59E+04	4.47E+03			
7/23/2018 13:20:39	41.00	37.40	39.70	48.80	35.20	63.10	39.60	43.60	36.90	48.80	35.20	7.59E+04	3.31E+03			
7/23/2018 13:21:39	40.30	36.30	38.40	45.90	34.80	60.40	38.30	40.70	36.20	45.90	34.80	3.89E+04	3.02E+03			
7/23/2018 13:22:39	41.90	36.40	39.50	48.10	34.90	60.80	39.40	44.40	36.50	48.10	34.90	6.46E+04	3.09E+03			
7/23/2018 13:23:39	41.20	36.90	39.40	49.20	36.10	68.50	39.30	43.20	36.70	49.20	36.10	8.32E+04	4.07E+03			
7/23/2018 13:24:39	41.50	37.10	39.90	52.80	35.40	76.00	39.70	46.80	36.60	52.80	35.40	1.91E+05	3.47E+03			
7/23/2018 13:25:39	48.00	38.70	45.90	62.90	36.70	84.50	45.70	54.90	37.90	62.90	36.70	1.95E+06	4.68E+03			
7/23/2018 13:26:39	58.90	43.80	55.40	72.80	39.60	90.80	55.30	65.50	42.60	72.80	39.60	1.91E+07	9.12E+03			
7/23/2018 13:27:39	60.90	49.10	57.50	70.00	44.30	96.20	57.40	64.30	50.70	70.00	44.30	1.00E+07	2.69E+04			
7/23/2018 13:28:39	62.50	39.20	59.40	78.20	35.50	103.90	59.40	69.80	38.40	78.20	35.50	6.61E+07	3.55E+03			

7/23/2018 13:29:39	64.40	43.30	63.90	86.10	38.40	98.90	63.80	78.90	44.40	86.10	38.40	4.07E+08	6.92E+03
7/23/2018 13:30:39	54.60	40.30	53.00	72.80	37.70	89.90	53.00	65.50	41.30	72.80	37.70	1.91E+07	5.89E+03

Location 6													Sum ten	Sum ten		
													CountA:	93	3.70E+08	5.36E+05
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min	
7/25/2018 11:28:03	53.80	37.50	50.80	69.00	34.50	85.70	51.70	63.20	37.90	69.00	34.50	7.94E+06	2.82E+03	65.99	37.60	
7/25/2018 11:29:03	55.30	37.90	51.20	65.70	35.60	80.40	51.10	59.80	37.40	65.70	35.60	3.72E+06	3.63E+03			
7/25/2018 11:30:03	52.70	37.20	52.60	69.00	35.10	87.90	52.50	66.30	36.30	69.00	35.10	7.94E+06	3.24E+03			
7/25/2018 11:31:03	58.60	41.40	52.90	65.10	39.10	74.70	52.90	62.00	41.30	65.10	39.10	3.24E+06	8.13E+03			
7/25/2018 11:32:03	62.10	38.00	58.00	71.00	36.60	89.70	57.90	68.40	37.20	71.00	36.60	1.26E+07	4.57E+03			
7/25/2018 11:33:03	58.90	43.20	54.30	66.20	40.60	81.40	54.40	64.00	43.10	66.20	40.60	4.17E+06	1.15E+04			
7/25/2018 11:34:03	55.20	38.60	50.90	62.90	37.10	75.70	50.90	61.20	38.40	62.90	37.10	1.95E+06	5.13E+03			
7/25/2018 11:35:03	57.60	38.30	51.90	64.00	35.80	75.90	51.90	61.30	37.90	64.00	35.80	2.51E+06	3.80E+03			
7/25/2018 11:36:03	41.20	37.60	39.50	43.60	36.50	56.50	39.50	42.50	38.00	43.60	36.50	2.29E+04	4.47E+03			
7/25/2018 11:37:03	50.10	38.10	46.60	58.50	36.60	70.50	46.40	56.60	37.90	58.50	36.60	7.08E+05	4.57E+03			
7/25/2018 11:38:03	56.60	45.40	52.20	61.00	43.40	73.30	52.10	58.90	44.40	61.00	43.40	1.26E+06	2.19E+04			
7/25/2018 11:39:03	56.50	40.60	51.60	61.20	39.30	73.30	51.60	59.40	40.10	61.20	39.30	1.32E+06	8.51E+03			
7/25/2018 11:40:03	44.20	38.30	41.70	52.10	36.90	68.30	41.60	48.80	38.40	52.10	36.90	1.62E+05	4.90E+03			
7/25/2018 11:41:03	40.50	37.60	39.00	43.80	36.60	59.80	38.90	41.00	37.50	43.80	36.60	2.40E+04	4.57E+03			
7/25/2018 11:42:03	44.00	39.00	43.20	53.90	37.00	66.10	42.60	52.50	38.30	53.90	37.00	2.45E+05	5.01E+03			
7/25/2018 11:43:03	61.50	40.10	55.80	64.20	38.90	75.70	55.40	63.40	39.50	64.20	38.90	2.63E+06	7.76E+03			
7/25/2018 11:44:03	63.20	42.70	57.20	67.00	41.50	79.00	57.40	65.20	42.10	67.00	41.50	5.01E+06	1.41E+04			
7/25/2018 11:45:03	57.40	40.80	52.50	64.90	39.80	76.40	52.20	63.40	40.50	64.90	39.80	3.09E+06	9.55E+03			
7/25/2018 11:46:03	62.40	40.90	59.10	72.00	39.60	83.20	59.10	70.20	40.00	72.00	39.60	1.58E+07	9.12E+03			
7/25/2018 11:47:03	54.00	37.20	51.90	66.20	36.10	78.70	51.90	63.90	36.60	66.20	36.10	4.17E+06	4.07E+03			
7/25/2018 11:48:03	61.90	38.30	57.00	72.50	36.90	81.60	56.90	69.00	37.30	72.50	36.90	1.78E+07	4.90E+03			
7/25/2018 11:49:03	58.10	38.90	51.20	61.70	37.60	73.70	50.90	59.90	38.20	61.70	37.60	1.48E+06	5.75E+03			
7/25/2018 11:50:03	55.30	40.10	54.90	68.10	37.50	80.50	55.00	66.30	39.20	68.10	37.50	6.46E+06	5.62E+03			
7/25/2018 11:51:03	54.00	38.70	50.70	64.30	36.60	75.60	50.60	62.40	37.20	64.30	36.60	2.69E+06	4.57E+03			
7/25/2018 11:52:03	51.80	35.70	47.90	59.50	35.00	71.70	47.70	57.30	35.20	59.50	35.00	8.91E+05	3.16E+03			
7/25/2018 11:53:03	54.80	37.90	49.50	61.20	36.80	72.10	49.50	58.50	37.30	61.20	36.80	1.32E+06	4.79E+03			
7/25/2018 11:54:03	59.00	38.90	53.40	65.60	36.90	77.90	53.40	64.00	37.50	65.60	36.90	3.63E+06	4.90E+03			
7/25/2018 11:55:03	51.70	38.60	47.50	59.50	37.00	71.30	47.40	57.80	38.10	59.50	37.00	8.91E+05	5.01E+03			
7/25/2018 11:56:03	56.10	39.10	50.80	60.60	36.30	72.40	50.70	58.70	39.70	60.60	36.30	1.15E+06	4.27E+03			
7/25/2018 11:57:03	53.60	38.90	51.10	64.10	36.90	75.50	51.00	62.20	38.30	64.10	36.90	2.57E+06	4.90E+03			
7/25/2018 11:58:03	50.70	36.00	47.40	59.50	35.00	73.70	47.30	58.10	36.00	59.50	35.00	8.91E+05	3.16E+03			
7/25/2018 11:59:03	39.90	36.20	38.00	44.10	35.20	60.60	38.30	45.20	36.30	44.10	35.20	2.57E+04	3.31E+03			
7/25/2018 12:00:03	60.40	39.30	55.70	66.90	37.50	79.20	55.60	65.30	38.10	66.90	37.50	4.90E+06	5.62E+03			
7/25/2018 12:01:03	51.60	37.30	48.90	62.40	36.00	74.30	48.90	60.60	37.20	62.40	36.00	1.74E+06	3.98E+03			
7/25/2018 12:02:03	56.00	39.50	49.80	59.20	38.20	71.00	49.80	57.80	39.10	59.20	38.20	8.32E+05	6.61E+03			
7/25/2018 12:03:03	41.50	37.90	39.70	43.70	36.60	58.30	39.60	41.80	37.50	43.70	36.60	2.34E+04	4.57E+03			
7/25/2018 12:04:03	60.10	39.60	56.00	67.80	38.10	80.30	56.00	65.60	38.80	67.80	38.10	6.03E+06	6.46E+03			
7/25/2018 12:05:03	52.00	40.20	48.80	62.00	39.40	76.20	48.80	60.10	39.90	62.00	39.40	1.58E+06	8.71E+03			
7/25/2018 12:06:03	59.50	37.50	55.70	68.00	36.10	79.40	55.60	66.70	36.80	68.00	36.10	6.31E+06	4.07E+03			
7/25/2018 12:07:03	59.00	37.50	54.50	64.40	36.00	77.00	54.50	63.20	36.70	64.40	36.00	2.75E+06	3.98E+03			
7/25/2018 12:08:03	51.80	35.70	48.20	61.90	34.80	73.00	48.20	59.80	35.70	61.90	34.80	1.55E+06	3.02E+03			
7/25/2018 12:09:03	61.20	35.50	55.70	67.50	34.10	79.10	55.30	66.00	34.90	67.50	34.10	5.62E+06	2.57E+03			
7/25/2018 12:10:03	47.40	36.30	44.10	57.60	35.00	69.00	46.90	61.60	36.00	57.60	35.00	5.75E+05	3.16E+03			

7/25/2018 12:11:03	37.50	34.80	36.10	39.60	33.90	59.50	36.10	39.00	34.50	39.60	33.90	9.12E+03	2.45E+03
7/25/2018 12:12:03	53.40	35.00	50.00	63.80	34.30	75.80	49.90	61.90	35.00	63.80	34.30	2.40E+06	2.69E+03
7/25/2018 12:13:03	59.80	36.00	52.80	63.70	34.40	75.70	52.70	61.90	35.30	63.70	34.40	2.34E+06	2.75E+03
7/25/2018 12:14:03	57.40	35.90	53.60	67.00	34.70	78.50	53.50	65.00	35.70	67.00	34.70	5.01E+06	2.95E+03
7/25/2018 12:15:03	41.00	36.60	38.90	43.90	34.60	56.90	38.90	43.20	36.60	43.90	34.60	2.45E+04	2.88E+03
7/25/2018 12:16:03	40.40	35.00	37.80	44.80	33.70	57.70	37.80	41.00	34.90	44.80	33.70	3.02E+04	2.34E+03
7/25/2018 12:17:03	57.40	37.20	52.70	65.50	35.60	77.80	52.60	63.40	36.90	65.50	35.60	3.55E+06	3.63E+03
7/25/2018 12:18:03	38.80	34.30	36.70	43.40	33.60	55.00	36.70	41.40	34.10	43.40	33.60	2.19E+04	2.29E+03
7/25/2018 12:19:03	59.90	37.70	54.40	65.80	34.60	76.50	54.30	63.90	36.10	65.80	34.60	3.80E+06	2.88E+03
7/25/2018 12:20:03	49.40	37.60	46.20	57.80	36.00	68.80	46.10	55.80	38.00	57.80	36.00	6.03E+05	3.98E+03
7/25/2018 12:21:03	60.90	39.50	55.90	64.60	37.30	76.50	55.90	62.40	39.00	64.60	37.30	2.88E+06	5.37E+03
7/25/2018 12:22:03	62.30	37.70	56.30	67.50	35.50	80.30	56.30	65.10	37.30	67.50	35.50	5.62E+06	3.55E+03
7/25/2018 12:23:03	60.80	37.70	59.00	73.30	35.50	84.70	58.90	70.80	36.60	73.30	35.50	2.14E+07	3.55E+03
7/25/2018 12:24:03	57.30	37.40	53.10	65.20	35.60	77.10	52.50	63.70	36.20	65.20	35.60	3.31E+06	3.63E+03
7/25/2018 12:25:03	62.70	38.50	56.70	66.40	36.50	79.70	56.70	64.90	37.60	66.40	36.50	4.37E+06	4.47E+03
7/25/2018 12:26:03	57.80	39.10	51.90	63.10	36.70	76.00	52.30	61.00	37.50	63.10	36.70	2.04E+06	4.68E+03
7/25/2018 12:27:03	60.30	36.40	54.20	65.20	34.60	77.40	54.10	63.70	35.30	65.20	34.60	3.31E+06	2.88E+03
7/25/2018 12:28:03	51.80	34.50	47.70	61.40	33.60	73.30	47.70	59.10	34.20	61.40	33.60	1.38E+06	2.29E+03
7/25/2018 12:29:03	58.50	34.80	54.40	69.10	33.80	80.60	54.00	66.30	34.20	69.10	33.80	8.13E+06	2.40E+03
7/25/2018 12:30:03	42.70	34.30	40.40	54.90	33.70	64.50	44.50	60.30	34.10	54.90	33.70	3.09E+05	2.34E+03
7/25/2018 12:31:03	36.80	34.20	35.40	42.90	33.40	53.60	35.30	38.80	34.10	42.90	33.40	1.95E+04	2.19E+03
7/25/2018 12:32:03	60.40	38.70	58.10	72.50	36.40	83.20	58.10	70.30	36.60	72.50	36.40	1.78E+07	4.37E+03
7/25/2018 12:33:03	51.90	37.50	49.20	61.50	36.20	73.30	49.20	60.30	37.30	61.50	36.20	1.41E+06	4.17E+03
7/25/2018 12:34:03	53.10	36.70	51.10	65.70	35.90	76.50	51.10	63.20	36.40	65.70	35.90	3.72E+06	3.89E+03
7/25/2018 12:35:03	57.40	38.10	52.00	62.00	36.90	74.90	51.80	59.80	37.10	62.00	36.90	1.58E+06	4.90E+03
7/25/2018 12:36:03	52.50	40.80	49.70	62.40	39.80	73.50	49.70	60.40	40.30	62.40	39.80	1.74E+06	9.55E+03
7/25/2018 12:37:03	53.20	38.40	47.90	59.20	37.50	70.00	47.30	57.60	38.40	59.20	37.50	8.32E+05	5.62E+03
7/25/2018 12:38:03	61.90	38.50	56.30	68.30	36.70	78.90	56.30	66.70	37.80	68.30	36.70	6.76E+06	4.68E+03
7/25/2018 12:39:03	59.30	37.10	54.80	67.10	35.70	79.10	54.70	65.40	36.80	67.10	35.70	5.13E+06	3.72E+03
7/25/2018 12:40:03	53.60	40.10	51.40	64.30	37.80	76.30	51.40	62.80	39.40	64.30	37.80	2.69E+06	6.03E+03
7/25/2018 12:41:03	55.60	39.70	51.60	64.20	37.60	77.10	51.50	62.40	39.50	64.20	37.60	2.63E+06	5.75E+03
7/25/2018 12:42:03	61.50	40.80	58.80	71.50	37.80	83.30	58.80	69.70	39.90	71.50	37.80	1.41E+07	6.03E+03
7/25/2018 12:43:03	57.80	40.80	52.50	65.30	39.00	76.80	52.50	62.80	40.40	65.30	39.00	3.39E+06	7.94E+03
7/25/2018 12:44:03	60.70	41.50	57.30	71.90	39.00	83.20	57.20	69.30	39.90	71.90	39.00	1.55E+07	7.94E+03
7/25/2018 12:45:03	57.90	38.80	53.30	65.50	37.20	77.60	53.40	63.60	38.00	65.50	37.20	3.55E+06	5.25E+03
7/25/2018 12:46:03	60.90	36.80	53.40	65.10	35.90	76.50	52.70	64.00	37.00	65.10	35.90	3.24E+06	3.89E+03
7/25/2018 12:47:03	56.80	38.30	52.10	64.30	37.00	76.90	52.70	62.60	37.90	64.30	37.00	2.69E+06	5.01E+03
7/25/2018 12:48:03	53.10	37.70	50.90	65.80	36.50	77.00	50.90	63.20	37.50	65.80	36.50	3.80E+06	4.47E+03
7/25/2018 12:49:03	40.50	36.50	38.90	48.60	35.40	59.70	38.60	45.80	36.70	48.60	35.40	7.24E+04	3.47E+03
7/25/2018 12:50:03	55.20	38.20	49.50	60.60	36.90	71.70	49.50	58.80	38.10	60.60	36.90	1.15E+06	4.90E+03
7/25/2018 12:51:03	59.60	37.70	54.80	67.60	36.50	79.40	54.70	65.70	37.20	67.60	36.50	5.75E+06	4.47E+03
7/25/2018 12:52:03	38.10	34.90	36.40	45.90	34.00	60.00	36.70	44.10	34.60	45.90	34.00	3.89E+04	2.51E+03
7/25/2018 12:53:03	57.50	35.10	51.20	61.60	34.00	73.80	51.10	59.30	34.70	61.60	34.00	1.45E+06	2.51E+03
7/25/2018 12:54:03	57.10	36.80	52.40	62.00	35.40	73.90	52.30	60.20	36.20	62.00	35.40	1.58E+06	3.47E+03
7/25/2018 12:55:03	57.80	40.40	53.70	64.70	38.70	75.70	53.60	62.60	39.50	64.70	38.70	2.95E+06	7.41E+03
7/25/2018 12:56:03	59.70	39.10	55.20	67.60	38.40	79.20	55.10	65.00	38.80	67.60	38.40	5.75E+06	6.92E+03
7/25/2018 12:57:03	57.40	36.30	52.70	63.90	35.00	76.20	52.70	62.00	35.80	63.90	35.00	2.45E+06	3.16E+03

7/25/2018 12:58:03	59.50	38.20	55.60	68.40	35.10	80.30	55.50	67.00	35.60	68.40	35.10	6.92E+06	3.24E+03
7/25/2018 12:59:03	61.50	47.90	58.40	70.60	45.90	83.10	58.30	69.00	45.20	70.60	45.90	1.15E+07	3.89E+04
7/25/2018 13:00:03	61.20	47.40	56.20	72.70	46.70	94.30	56.10	64.20	46.90	72.70	46.70	1.86E+07	4.68E+04

Location 7													Sum ten	Sum ten		
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	CountA:	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min
												40	5.04E+03	2.58E+03		
7/23/2018 11:41:37	18.60	18.00	18.20	19.30	17.70	34.40	18.50	23.20	18.00	19.30	17.70	8.51E+01	5.89E+01	21.01	18.10	
7/23/2018 11:42:37	19.00	18.30	18.60	20.30	17.90	38.50	19.00	25.60	18.10	20.30	17.90	1.07E+02	6.17E+01			
7/23/2018 11:43:37	19.60	18.80	19.00	20.90	18.30	40.70	19.40	26.30	18.50	20.90	18.30	1.23E+02	6.76E+01			
7/23/2018 11:44:37	19.30	18.60	18.80	20.20	18.10	34.60	19.00	22.00	18.50	20.20	18.10	1.05E+02	6.46E+01			
7/23/2018 11:45:37	19.30	18.60	18.80	19.80	18.10	32.90	18.80	21.00	18.50	19.80	18.10	9.55E+01	6.46E+01			
7/23/2018 11:46:37	19.20	18.50	18.80	20.20	18.10	33.20	18.70	20.20	18.40	20.20	18.10	1.05E+02	6.46E+01			
7/23/2018 11:47:37	19.20	18.50	18.70	19.90	18.10	37.30	18.90	24.40	18.40	19.90	18.10	9.77E+01	6.46E+01			
7/23/2018 11:48:37	19.20	18.50	18.80	20.00	17.90	33.10	18.70	21.40	18.40	20.00	17.90	1.00E+02	6.17E+01			
7/23/2018 11:49:37	19.30	18.50	18.80	20.20	18.10	35.70	18.90	22.80	18.40	20.20	18.10	1.05E+02	6.46E+01			
7/23/2018 11:50:37	19.20	18.50	18.80	19.80	18.00	33.00	18.70	19.60	18.40	19.80	18.00	9.55E+01	6.31E+01			
7/23/2018 11:51:37	19.20	18.50	18.80	19.80	18.10	36.70	18.90	23.70	18.40	19.80	18.10	9.55E+01	6.46E+01			
7/23/2018 11:52:37	19.20	18.50	18.70	19.90	18.10	33.40	18.80	22.50	18.40	19.90	18.10	9.77E+01	6.46E+01			
7/23/2018 11:53:37	24.00	18.60	20.50	28.80	18.10	37.10	20.50	25.70	18.50	28.80	18.10	7.59E+02	6.46E+01			
7/23/2018 11:54:37	19.20	18.50	18.80	23.50	18.10	37.20	18.90	23.80	18.40	23.50	18.10	2.24E+02	6.46E+01			
7/23/2018 11:55:37	19.10	18.50	18.70	23.30	18.10	36.30	18.80	23.80	18.40	23.30	18.10	2.14E+02	6.46E+01			
7/23/2018 11:56:37	19.20	18.50	18.70	19.90	18.10	38.90	18.80	22.10	18.40	19.90	18.10	9.77E+01	6.46E+01			
7/23/2018 11:57:37	19.40	18.50	18.90	21.10	18.00	36.90	19.00	23.90	18.30	21.10	18.00	1.29E+02	6.31E+01			
7/23/2018 11:58:37	19.20	18.50	18.70	19.80	17.90	36.50	18.90	24.00	18.30	19.80	17.90	9.55E+01	6.17E+01			
7/23/2018 11:59:37	19.40	18.60	18.90	24.40	18.10	44.70	19.10	23.60	18.40	24.40	18.10	2.75E+02	6.46E+01			
7/23/2018 12:00:37	19.40	18.70	18.90	19.90	18.20	34.40	19.00	22.70	18.60	19.90	18.20	9.77E+01	6.61E+01			
7/23/2018 12:01:37	19.40	18.70	18.90	20.10	18.20	37.10	19.10	24.90	18.60	20.10	18.20	1.02E+02	6.61E+01			
7/23/2018 12:02:37	19.30	18.70	18.90	19.90	18.20	33.70	18.80	19.70	18.60	19.90	18.20	9.77E+01	6.61E+01			
7/23/2018 12:03:37	19.30	18.60	18.90	19.80	18.20	37.20	19.00	24.10	18.60	19.80	18.20	9.55E+01	6.61E+01			
7/23/2018 12:04:37	19.30	18.60	18.90	20.40	18.20	33.50	18.90	21.70	18.60	20.40	18.20	1.10E+02	6.61E+01			
7/23/2018 12:05:37	19.40	18.70	18.90	20.50	18.30	33.90	18.90	21.70	18.60	20.50	18.30	1.12E+02	6.76E+01			
7/23/2018 12:06:37	19.30	18.70	18.90	20.00	18.20	35.90	19.20	25.10	18.60	20.00	18.20	1.00E+02	6.61E+01			
7/23/2018 12:07:37	19.30	18.60	18.80	20.30	18.20	33.10	18.90	21.60	18.60	20.30	18.20	1.07E+02	6.61E+01			
7/23/2018 12:08:37	19.20	18.60	18.80	20.00	18.20	32.60	18.80	19.80	18.60	20.00	18.20	1.00E+02	6.61E+01			
7/23/2018 12:09:37	19.20	18.60	18.80	19.70	18.20	34.20	18.80	22.50	18.50	19.70	18.20	9.33E+01	6.61E+01			
7/23/2018 12:10:37	19.20	18.60	18.80	20.10	18.20	32.80	18.70	20.30	18.50	20.10	18.20	1.02E+02	6.61E+01			
7/23/2018 12:11:37	19.20	18.60	18.80	19.70	18.10	32.70	18.80	21.40	18.50	19.70	18.10	9.33E+01	6.46E+01			
7/23/2018 12:12:37	19.20	18.60	18.80	19.70	18.20	33.20	18.80	21.50	18.50	19.70	18.20	9.33E+01	6.61E+01			
7/23/2018 12:13:37	19.10	18.50	18.70	19.80	18.00	33.60	18.70	19.10	18.50	19.80	18.00	9.55E+01	6.31E+01			
7/23/2018 12:14:37	19.10	18.50	18.70	19.60	18.10	33.00	18.70	20.20	18.50	19.60	18.10	9.12E+01	6.46E+01			
7/23/2018 12:15:37	19.00	18.50	18.60	19.70	18.10	32.80	18.60	19.80	18.40	19.70	18.10	9.33E+01	6.46E+01			
7/23/2018 12:16:37	19.00	18.50	18.60	19.50	18.00	33.20	18.60	19.40	18.40	19.50	18.00	8.91E+01	6.31E+01			
7/23/2018 12:17:37	19.00	18.40	18.60	19.70	18.00	33.40	18.60	21.60	18.30	19.70	18.00	9.33E+01	6.31E+01			
7/23/2018 12:18:37	18.90	18.40	18.60	19.50	18.10	32.60	18.60	20.60	18.40	19.50	18.10	8.91E+01	6.46E+01			
7/23/2018 12:19:37	18.90	18.40	18.60	19.60	18.00	33.10	18.50	19.70	18.30	19.60	18.00	9.12E+01	6.31E+01			
7/23/2018 12:20:37	18.90	18.40	18.50	19.50	18.00	32.90	18.70	22.30	18.30	19.50	18.00	8.91E+01	6.31E+01			

Location 8													Sum ten	Sum ten		
													CountA:	45	5.46E+08	7.62E+06
Date/Time	L10-1	L90-1	Leq-1	Lmax-1	Lmin-1	Lpk-1	Leq-2	Lmax-2	Lmin-2	Lmax-1	Lmin-1	Ten Lmax/10	Ten Lmin/10	Leq Max	Leq Min	
7/25/2018 10:37:50	74.50	60.10	70.20	81.30	57.30	106.10	70.20	75.50	59.40	81.30	57.30	1.35E+08	5.37E+05	70.84	52.29	
7/25/2018 10:38:50	78.80	59.90	74.50	80.20	54.30	93.20	74.40	79.10	56.80	80.20	54.30	1.05E+08	2.69E+05			
7/25/2018 10:39:50	65.90	53.40	62.20	76.60	50.50	99.10	63.80	76.80	52.60	76.60	50.50	4.57E+07	1.12E+05			
7/25/2018 10:40:50	67.80	52.10	64.00	73.60	49.80	86.50	64.00	70.90	50.90	73.60	49.80	2.29E+07	9.55E+04			
7/25/2018 10:41:50	67.30	52.10	61.60	72.00	50.10	86.90	61.60	68.90	51.40	72.00	50.10	1.58E+07	1.02E+05			
7/25/2018 10:42:50	60.90	48.30	56.50	64.10	46.60	77.20	56.40	61.30	47.10	64.10	46.60	2.57E+06	4.57E+04			
7/25/2018 10:43:50	62.00	46.80	59.10	66.90	44.30	86.80	59.10	62.10	46.40	66.90	44.30	4.90E+06	2.69E+04			
7/25/2018 10:44:50	59.70	46.70	56.60	61.40	44.50	74.70	56.50	59.80	46.20	61.40	44.50	1.38E+06	2.82E+04			
7/25/2018 10:45:50	62.00	38.50	58.10	69.30	36.40	90.40	58.00	64.90	37.90	69.30	36.40	8.51E+06	4.37E+03			
7/25/2018 10:46:50	53.60	40.90	49.90	56.40	37.70	68.20	49.80	55.30	38.40	56.40	37.70	4.37E+05	5.89E+03			
7/25/2018 10:47:50	60.40	46.20	54.80	66.20	44.00	77.80	54.80	63.00	44.90	66.20	44.00	4.17E+06	2.51E+04			
7/25/2018 10:48:50	55.10	44.00	53.10	67.00	42.10	77.20	52.90	63.30	42.90	67.00	42.10	5.01E+06	1.62E+04			
7/25/2018 10:49:50	55.50	40.60	51.50	64.90	38.90	76.30	51.70	61.20	39.50	64.90	38.90	3.09E+06	7.76E+03			
7/25/2018 10:50:50	40.80	37.00	49.20	68.00	35.80	78.30	49.10	64.60	36.90	68.00	35.80	6.31E+06	3.80E+03			
7/25/2018 10:51:50	55.80	38.50	52.30	62.80	37.00	76.60	52.20	61.00	37.30	62.80	37.00	1.91E+06	5.01E+03			
7/25/2018 10:52:50	58.30	40.40	53.10	62.90	36.50	79.60	53.10	61.80	38.40	62.90	36.50	1.95E+06	4.47E+03			
7/25/2018 10:53:50	54.50	37.60	48.80	57.50	35.50	70.20	48.60	56.40	38.50	57.50	35.50	5.62E+05	3.55E+03			
7/25/2018 10:54:50	57.40	50.40	54.70	62.00	48.00	75.10	54.60	61.00	48.80	62.00	48.00	1.58E+06	6.31E+04			
7/25/2018 10:55:50	46.00	37.10	42.30	49.90	35.70	69.70	42.40	49.20	36.90	49.90	35.70	9.77E+04	3.72E+03			
7/25/2018 10:56:50	53.00	45.60	51.20	61.20	43.70	72.90	50.60	60.00	44.50	61.20	43.70	1.32E+06	2.34E+04			
7/25/2018 10:57:50	64.00	45.50	59.70	69.10	40.70	81.30	59.30	68.00	44.20	69.10	40.70	8.13E+06	1.17E+04			
7/25/2018 10:58:50	61.00	46.10	57.70	67.10	44.40	79.40	58.20	67.20	45.20	67.10	44.40	5.13E+06	2.75E+04			
7/25/2018 10:59:50	56.70	45.40	53.90	68.20	41.80	78.90	53.70	63.50	43.60	68.20	41.80	6.61E+06	1.51E+04			
7/25/2018 11:00:50	61.80	46.90	58.30	65.40	42.50	77.30	58.20	62.80	43.90	65.40	42.50	3.47E+06	1.78E+04			
7/25/2018 11:01:50	66.60	51.70	62.20	73.60	50.80	84.50	62.20	71.50	51.10	73.60	50.80	2.29E+07	1.20E+05			
7/25/2018 11:02:50	56.70	48.20	56.20	73.60	46.80	86.20	56.20	67.30	47.70	73.60	46.80	2.29E+07	4.79E+04			
7/25/2018 11:03:50	57.00	48.70	52.80	59.20	47.80	75.80	52.70	58.10	48.40	59.20	47.80	8.32E+05	6.03E+04			
7/25/2018 11:04:50	64.00	51.70	61.10	66.80	49.80	78.50	61.00	65.40	50.20	66.80	49.80	4.79E+06	9.55E+04			
7/25/2018 11:05:50	62.10	57.20	59.80	64.10	56.50	76.90	59.70	62.80	56.90	64.10	56.50	2.57E+06	4.47E+05			
7/25/2018 11:06:50	58.80	57.00	58.40	67.30	56.00	79.00	58.10	65.40	56.50	67.30	56.00	5.37E+06	3.98E+05			
7/25/2018 11:07:50	62.90	56.50	60.30	68.50	55.60	80.90	60.40	67.40	56.20	68.50	55.60	7.08E+06	3.63E+05			
7/25/2018 11:08:50	61.70	56.60	59.20	64.10	55.90	84.00	59.10	63.00	56.30	64.10	55.90	2.57E+06	3.89E+05			
7/25/2018 11:09:50	61.00	56.50	59.20	66.20	55.60	85.10	59.10	63.10	56.00	66.20	55.60	4.17E+06	3.63E+05			
7/25/2018 11:10:50	65.00	57.90	61.90	68.40	56.40	80.70	61.90	65.40	57.50	68.40	56.40	6.92E+06	4.37E+05			
7/25/2018 11:11:50	68.20	57.80	63.80	74.00	54.50	100.50	63.60	70.10	56.10	74.00	54.50	2.51E+07	2.82E+05			
7/25/2018 11:12:50	70.00	56.60	66.00	73.40	54.20	85.90	66.00	71.00	56.20	73.40	54.20	2.19E+07	2.63E+05			
7/25/2018 11:13:50	58.20	56.00	56.90	60.60	55.00	74.10	56.80	58.60	55.60	60.60	55.00	1.15E+06	3.16E+05			
7/25/2018 11:14:50	58.50	56.30	57.30	60.30	55.20	71.80	57.30	58.70	55.90	60.30	55.20	1.07E+06	3.31E+05			
7/25/2018 11:15:50	58.30	56.00	57.10	65.60	55.20	82.20	57.10	60.90	55.90	65.60	55.20	3.63E+06	3.31E+05			
7/25/2018 11:16:50	57.70	56.20	56.90	62.40	55.30	76.70	56.80	58.60	56.00	62.40	55.30	1.74E+06	3.39E+05			
7/25/2018 11:17:50	57.50	56.10	56.80	58.00	55.20	70.80	56.70	57.30	55.90	58.00	55.20	6.31E+05	3.31E+05			
7/25/2018 11:18:50	58.30	56.20	57.30	62.30	54.80	75.30	57.20	59.10	55.50	62.30	54.80	1.70E+06	3.02E+05			
7/25/2018 11:19:50	60.10	56.50	58.70	66.30	55.40	77.10	58.60	64.20	55.90	66.30	55.40	4.27E+06	3.47E+05			

7/25/2018 11:20:50	58.10	56.10	57.00	59.80	54.40	72.10	56.90	58.20	55.10	59.80	54.40	9.55E+05	2.75E+05
7/25/2018 11:21:50	58.70	56.50	58.20	71.00	55.20	92.20	58.10	64.00	55.40	71.00	55.20	1.26E+07	3.31E+05

Appendix C: Water Sampling Reports

Round 1

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/7/2017
 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334573-01			L-1		Wastewater			
Chloride	<4.00	mg/L	SM20 4500CL-C-97	250		11/14/17 0:00	AM	
Color (apparent)	45		SM20 2120B-01	15		11/07/17 15:35	JR	
Alkalinity as CaCO3	4.75	mg/L	SM20 2320B-97			11/14/17 0:00	JR	
Hardness as CaCO3, Calcium	<10.0	mg/L	SM20 3500CaB-97			11/08/17 11:30	AM	
pH	5.91		SM20 2330H+B			11/07/17 15:25	JR	H3
Corrosivity Index (LI)	-4.45		SM20 2330			11/14/17 0:00	JR	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/14/17 0:00	AM	
Nitrate/Nitrite as N	<0.0500	mg/L	La10107041C	10.0		11/08/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B-nn	1.0		11/07/17 15:25	JR	
Odor at 60C	None		SM20 2150B-97	3		11/07/17 15:30	JR	OD
Solids, Dissolved Total	114	mg/L	SM20 2540C-97	500		11/09/17 15:40	AM	
Turbidity	1.93	ntu	SM20 2130B-01	1		11/07/17 15:45	JR	

334573-02			L-1		Wastewater			
1,1,1,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,1,1-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,1,2,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,1,2-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,1-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,1-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,1-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,2,3-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,2,3-Trichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,2,4-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,2,4-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U

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Circleville, NY 10919

Project
Date Sampled 11/7/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334573-02				L-1				Wastewater
1,2-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,2-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,3,5-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,3-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,3-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
1,4-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
2,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
2-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
4-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Benzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Bromobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Bromochloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Bromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Carbon tetrachloride	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Chlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Chloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Chloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Dibromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Dichlorodifluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Ethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Hexachlorobutadiene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Isopropylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Methyl tert-butyl ether	<0.50	ug/L	EPA 524.2	10		11/08/17 8:11	EL	U
Methylene chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Styrene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Tetrachloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Toluene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Trichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Trichlorofluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U

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Project
 Date Sampled 11/7/2017
 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334573-02								L-1
								Wastewater
Vinyl chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
cis-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
cis-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
n-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
n-Propylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
p-Isopropyltoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
sec-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
tert-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
trans-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
trans-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
m-Xylene & p-Xylene	<1.0	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
o-Xylene	<0.50	ug/L	EPA 524.2	5		11/08/17 8:11	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2			11/08/17 8:11	EL	U
Bromoform	<0.50	ug/L	EPA 524.2			11/08/17 8:11	EL	U
Chloroform	<0.50	ug/L	EPA 524.2			11/08/17 8:11	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/08/17 8:11	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/08/17 8:11	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 8:00	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 8:00	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 8:00	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 8:00	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 8:00	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/20/17 9:30	11/20/17 8:00	EL	U
Silver, Ag	<0.0010	mg/L	EPA 200.8	0.10	11/10/17 11:14	11/13/17 5:56	EL	U
Cyanide, Total	<0.0050	mg/L	SM18 4500-CN E	0.2	11/09/17 2:00	11/10/17 4:00	EL	U
Copper, Cu	<0.010	mg/L	EPA 200.8	1.3	11/10/17 11:14	11/13/17 5:56	EL	U
Iron, Fe	0.48	mg/L	EPA 200.7	0.3	11/10/17 11:14	11/13/17 6:35	EL	g

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Project
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 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334573-02								Wastewater
								L-1
Lead, Pb	<0.0010	mg/L	EPA 200.8	0.015	11/10/17 11:14	11/13/17 5:56	EL	U
Manganese, Mn	0.27	mg/L	EPA 200.7	0.3	11/10/17 11:14	11/13/17 6:35	EL	
Arsenic, As	<0.0014	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Barium, Ba	0.052	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	
Cadmium, Cd	<0.0010	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1		11/15/17 10:30	11/15/17 3:40	EL	U
Selenium, Se	<0.0020	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Antimony, Sb	<0.00040	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Beryllium, Be	<0.00030	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Nickel, Ni	0.0010	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	
Thallium, Tl	<0.00030	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:56	EL	U
Sodium, Na	1.7	mg/L	EPA 200.7		11/10/17 11:14	11/13/17 6:35	EL	
Sulfate	<5.0	mg/L	EPA 300.0	250		11/08/17 7:03	EL	U
Zinc, Zn	<0.020	mg/L	EPA 200.7	5.0	11/10/17 11:14	11/13/17 6:35	EL	U

EL = Analysis by Envirotec Laboratories #10142

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

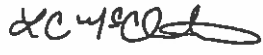
Phone 845-733-1557
Fax 845-733-1944
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KC Engineering and Land Surveying
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Circleville, NY 10919

Project
Date Sampled 11/7/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
------	--------	-------	--------	-----	-----------	-----------	----------	------------

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- g = Result fails applicable drinking water standards
- H3 = This analysis is no longer ELAP certified
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

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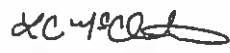
Project
Date Received 11/14/2017
Date Complete 12/11/2017
Date Printed 12/11/2017

Sample Number 334788-01
Federal ID
Description
Location L-2
Sample Point

Date Sampled 11/14/17 10:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached							OL
Radiologicals								
Gross Alpha	see attached			15				PG
Gross Beta	see attached							PG
Radium 226	see attached			5				PG
Radium 228	see attached			5				PG
Uranium, U	see attached	ug/L		30				PG
RADON								
Radon	see attached							PG

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217112623

Client Name: OCL Analytical Services

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334788-01	0.005	5	NSD	NSD	0.43	<0.43	<0.43	---

*NAD/NSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100:2, 5:1 aspect ratio; organic rich waste water prepped by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: _____ ; Analyzed By: _____ Date: 11/21/2017
Manik Peysakhov



Pace Analytical Services, LLC
1638 Rosstown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 21, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334788
Pace Project No.: 30236079

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 334788
Pace Project No.: 30236079

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 80133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4088
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15801
(724)850-5800

SAMPLE SUMMARY

Project: 334788
Pace Project No.: 30236079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236079001	334788-01	Drinking Water	11/11/17 10:30	11/15/17 09:45

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SAMPLE ANALYTE COUNT

Project: 334788
Pace Project No.: 30238079

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30236079001	334788-01	SM7500RnB-07	NJV	1

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Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 334788
Pace Project No.: 30236079

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 21, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

- H1: Analysis conducted outside the EPA method holding time.
- 334788-01 (Lab ID: 30236079001)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 279344

1c: Sample 30236079001 from this analytical project was analyzed outside of the recommended Radon-222 hold time of four days. Results reported are decay corrected to the sample collection date and time supplied by the client.

- 334788-01 (Lab ID: 30236079001)
- Radon

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334788
Pace Project No.: 30236079

Sample: 334788-01 Lab ID: 30236079001 Collected: 11/11/17 10:30 Received: 11/15/17 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	-40.5 ± 48.5 (88.4) C:NA T:NA	pCi/L	11/16/17 23:49	10043-92-2	1c,H1

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334788
Pace Project No.: 30236079

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1c Sample 30236079001 from this analytical project was analyzed outside of the recommended Radon-222 hold time of four days. Results reported are decay corrected to the sample collection date and time supplied by the client.
H1 Analysis conducted outside the EPA method holding time.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

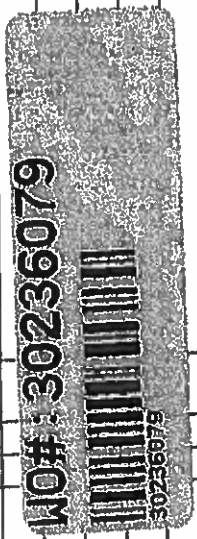
Report to: Name KOE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KOE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl. Field	Analysis Required
234788-01	11/11/03 10:30		L-2	1 LP	HNO3		Grass Alpha
				1 LP	HNO3		Grass Beta
				1 LP	HNO3		Radon-226
				1 LP	HNO3		Radon-222
				1 LP	HNO3		Radon-220
				2 40mm	none		Radon in Water
				1 LP	none		Asbestos



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid?

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
Bob Garcia			11/19/07	1:40					

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCI

Project # 30236079-

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z2747180193093214

Label	<u>ZH</u>
LIMS Login	<u>CVN</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and initials of person examining contents: ZH 11/15/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:		/		3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:		/		
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>8mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr	/			Initial when completed: <u>ZH</u> Date: <u>11/15/17</u>

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

December 10, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334788
Pace Project No.: 30236486

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

CERTIFICATIONS

Project: 334788
Pace Project No.: 30236486

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 80133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42708
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)860-5600

SAMPLE SUMMARY

Project: 334788
Pace Project No.: 30236486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236486001	334788-01	Drinking Water	11/11/17 10:30	11/17/17 09:30

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Greensburg, PA 15601
(724)850-5800

SAMPLE ANALYTE COUNT

Project: 334788
Pace Project No.: 30238488

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30238488001	334788-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 334788
Pace Project No.: 30238488

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334788
Pace Project No.: 30236486

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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(724)860-6600

PROJECT NARRATIVE

Project: 334788
Pace Project No.: 30238486

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 334788
Pace Project No.: 30238488

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334788
 Pace Project No.: 30236486

Sample: 334788-01 Lab ID: 30236486001 Collected: 11/11/17 10:30 Received: 11/17/17 09:30 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.326 ± 0.399 (0.807) C:NA T:NA	pCi/L	11/28/17 18:43	12587-46-1	
Gross Beta	EPA 900.0	0.432 ± 0.487 (1.01) C:NA T:NA	pCi/L	11/28/17 18:43	12587-47-2	
Radium-228	EPA 903.1	0.376 ± 0.428 (0.679) C:NA T:94%	pCi/L	12/07/17 13:32	13982-83-3	
Radium-228	EPA 904.0	0.333 ± 0.375 (0.786) C:76% T:82%	pCi/L	12/01/17 15:01	15262-20-1	
Total Uranium	ASTM D5174-97	0.070 ± 0.004 (0.193) C:NA T:NA	ug/L	12/10/17 12:59	7440-61-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334788
 Pace Project No.: 30236486

QC Batch: 280067	Analysis Method: ASTM D5174-97
QC Batch Method: ASTM D5174-97	Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 30236486001	

METHOD BLANK: 1375646	Matrix: Water
Associated Lab Samples: 30236486001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.124 ± 0.008 (0.193) C:NA T:NA	ug/L	12/07/17 17:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334788
 Pace Project No.: 30236486

QC Batch: 279865 Analysis Method: EPA 900.0
 QC Batch Method: EPA 900.0 Analysis Description: 900.0 Gross Alpha/Beta
 Associated Lab Samples: 30236486001

METHOD BLANK: 1374699 Matrix: Water
 Associated Lab Samples: 30236486001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.639 ± 0.793 (1.64) C:NA T:NA	pCi/L	11/28/17 12:51	
Gross Beta	0.311 ± 0.878 (2.02) C:NA T:NA	pCi/L	11/28/17 12:51	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334788
 Pace Project No.: 30236488

QC Batch: 280247	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30236488001	

METHOD BLANK: 1376369 Matrix: Water
 Associated Lab Samples: 30236488001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.583 ± 0.434 (0.571) C:NA T:92%	pCi/L	12/07/17 12:50	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334788
Pace Project No.: 30236486

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
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Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

CHAIN OF CUSTODY

Report to: KCB
 Name: KCB
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to: KCB
 Name: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCN Number	Collection Date Time	Matrix	Grab	Comp	Sample Description/Location	Containers Qty/type	Preser- vative	cl test	Analysis Required
234188-01	11/11 10:30				L-2	1 LP	HNO3		Gross Alpha
						1 LP	HNO3		Gross Beta
						1 LP	HNO3		Radium 226
						1 LP	HNO3		Radium 228
						1 LP	HNO3		Uranium
						2 40mm	none		Radon
						1 LP	none		Asbestos



Comments/Special Instructions: 38235486 Rush Requested? Client Code: 00 Prepaid?

Sampled By: _____	print sign	date: 11/14/17	time: 1:30	Received By: _____	print sign	date: 11/17/17	time: 0:30
Relinquished By: _____	print sign	date: 11/15/17	time: 9:40	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

Pittsburgh Lab Sample Condition Upon Receipt



30236486

Client Name: OCL

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1ZMT07K40308049832

Label <u>ML</u>
LIMS Login <u>ANL</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 11/17/13

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16. <u>Pitc2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/Time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>11/17/13</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/14/2017
 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334789-01			L-2					Drinking Water
Chloride	<4.00	mg/L	SM20 4500CL-C-97	250		11/21/17 0:00	JR	
Color (apparent)	50		SM20 2120B-01	15		11/14/17 14:50	AM	
Alkalinity as CaCO3	<10.0	mg/L	SM20 2320B-97			11/21/17 0:00	AM	
Hardness as CaCO3, Calcium	13.0	mg/L	SM20 3500CaB-97			11/15/17 13:10	JR	
pH	5.33		SM20 2330H+B			11/14/17 14:45	AM	H3
Corrosivity Index (LI)	-4.64		SM20 2330			11/21/17 0:00	AM	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/21/17 0:00	JR	
Nitrate/Nitrite as N	0.0548	mg/L	La10107041C	10.0		11/15/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B-nn	1.0		11/14/17 15:00	AM	
Odor at 60C	None		SM20 2150B-97	3		11/14/17 14:50	AM	OD
Solids, Dissolved Total	28.0	mg/L	SM20 2540C-97	500		11/15/17 14:15	AM	
Turbidity	1.49	ntu	SM20 2130B-01	1		11/14/17 15:15	AM	

334789-02			L-2					Drinking Water
1,1,1,2-Tetrachloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,1,1-Trichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,1,2,2-Tetrachloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,1,2-Trichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,1-Dichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,1-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,1-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,2,3-Trichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,2,3-Trichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,2,4-Trichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,2,4-Trimethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U

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2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334789-02				L-2				Drinking Water
1,2-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,2-Dichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,2-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,3,5-Trimethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,3-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,3-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
1,4-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
2,2-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
2-Chlorotoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
4-Chlorotoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Benzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Bromobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Bromochloromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Bromomethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Carbon tetrachloride	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Chlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Chloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Chloromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Dibromomethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Dichlorodifluoromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Ethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Hexachlorobutadiene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Isopropylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Methyl tert-butyl ether	<1.0	ug/L	EPA 524.2	10	11/17/17 2:59	11/17/17 2:59	EL	U
Methylene chloride	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Styrene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Tetrachloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Toluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Trichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Trichlorofluoromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U

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 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/14/2017
 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334789-02				L-2				Drinking Water
Vinyl chloride	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
cis-1,2-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
cis-1,3-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
n-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
n-Propylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
p-Isopropyltoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
sec-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
tert-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
trans-1,2-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
trans-1,3-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Xylenes, Total	<1.0	ug/L	EPA 524.2	5	11/17/17 2:59	11/17/17 2:59	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2		11/17/17 2:59	11/16/17 8:29	EL	U
Bromoform	<0.50	ug/L	EPA 524.2		11/17/17 2:59	11/16/17 8:29	EL	U
Chloroform	<0.50	ug/L	EPA 524.2		11/17/17 2:59	11/16/17 8:29	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/16/17 8:29	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/16/17 8:29	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:01	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:01	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:01	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:01	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:01	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/20/17 9:30	11/20/17 11:01	EL	U
Arsenic, As	<0.010	mg/L	EPA 200.7	0.01	11/17/17 9:50	11/20/17 8:14	EL	U
Barium, Ba	<0.20	mg/L	EPA 200.7	2.00	11/17/17 9:50	11/20/17 8:14	EL	U
Cadmium, Cd	<0.0050	mg/L	EPA 200.7	0.005	11/17/17 9:50	11/20/17 8:14	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.7	0.10	11/17/17 9:50	11/20/17 8:14	EL	U
Lead, Pb	<0.0050	mg/L	EPA 200.7	0.015	11/17/17 9:50	11/20/17 8:14	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1	0.002	11/21/17 10:30	11/22/17 1:30	EL	U

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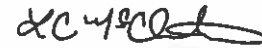
Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334789-02								Drinking Water
Selenium, Se	<0.010	mg/L	EPA 200.7	0.05	11/17/17 9:50	11/20/17 8:14	EL	U
Silver, Ag	<0.010	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:14	EL	U
Copper, Cu	<0.025	mg/L	EPA 200.7	1.3	11/17/17 9:50	11/20/17 8:14	EL	U
Iron, Fe	0.75	mg/L	EPA 200.7	0.3	11/17/17 9:50	11/20/17 8:14	EL	
Manganese, Mn	0.14	mg/L	EPA 200.7	0.3	11/17/17 9:50	11/20/17 8:14	EL	
Sodium, Na	1.3	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:14	EL	
Zinc, Zn	<0.020	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:14	EL	U
Antimony, Sb	<0.060	mg/L	EPA 200.7	0.006	11/17/17 9:50	11/20/17 8:14	EL	U
Beryllium, Be	<0.0050	mg/L	EPA 200.7	0.004	11/17/17 9:50	11/20/17 8:14	EL	U
Nickel, Ni	<0.040	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:14	EL	U
Thallium, Tl	<0.010	mg/L	EPA 200.7	0.002	11/17/17 9:50	11/20/17 8:14	EL	U
Cyanide, Total	<0.010	mg/L	EPA 335.4		11/17/17 10:30	11/17/17 3:04	EL	U
Sulfate	<5.0	mg/L	EPA 300.0	250		11/16/17 2:01	EL	U

EL = Analysis by Envirotest Laboratories #10142

334789-03								Drinking Water
Fecal Coliform, MF	<5	cfu/100ml	SM9222D-97			11/14/17 15:10	AM	

Approved By



Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

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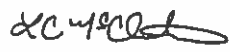
Project
Date Received 11/7/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334575-01
Federal ID
Description
Location L-1
Sample Point

Date Sampled 11/07/17 12:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached						OL	
Radiologicals								
Gross Alpha	see attached			15			PG	
Gross Beta	see attached						PG	
Radium 226	see attached			5			PG	
Radium 228	see attached			5			PG	
Uranium, U	see attached	ug/L		30			PG	
RADON								
Radon	see attached						PG	

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217111878

Client Name: OCL Analytical Services


Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334575-01	0.005	3	NSD	NSD	0.43	<0.43	<0.43	---

L-1

*NADNSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepped by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: _____ ; Analyzed By:  Date: 11/15/2017
Aleksandr Barengolts



Pace Analytical Services, LLC
1638 Rosetown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5800

November 09, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334575
Pace Project No.: 30235349

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334675
Pace Project No.: 30235349

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0894
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2876
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42708
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9984C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

SAMPLE SUMMARY

Project: 334575
Pace Project No.: 30235349

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235349001	334575-01	Drinking Water	11/07/17 12:30	11/08/17 09:50

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(724)850-5800

SAMPLE ANALYTE COUNT

Project: 334575
Pace Project No.: 30235349

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235349001	334575-01	SM7500RnB-07	NJV	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334575
Pace Project No.: 30235349

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 09, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334575
Pace Project No.: 30235349

Sample: 334575-01 Lab ID: 30235349001 Collected: 11/07/17 12:30 Received: 11/08/17 09:50 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	-7.0 ± 24.6 (43.6) C:NA T:NA	pCi/L	11/09/17 00:17	10043-92-2	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 334575
Pace Project No.: 30235349

QC Batch:	278399	Analysis Method:	SM7500RnB-07
QC Batch Method:	SM7500RnB-07	Analysis Description:	7500Rn B Radon
Associated Lab Samples:	30235349001		

METHOD BLANK:	1367438	Matrix:	Water
Associated Lab Samples:	30235349001		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	-0.6 ± 19.0 (33.2) C:NA T:NA	pCi/L	11/08/17 20:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334575
Pace Project No.: 30235349

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name K. CK
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: K. CK

Sample Temp (c) 10.7
 Sample rec'd on ice? yes
 Sample set up in 6 hr? yes
 Properly preserved? yes
 Within holding times? yes
 Reviewed by PC

Samples should be brought to the lab ON ICE,
 with a receiving temp of 2 to 6 C

OCN Number	Collection Date	Time	Comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Analysis Required
30235349	11/7/17	12:30				11/7/17	1 LP	HNO3	Caesium Alpha 001
						L-1	1 LP	HNO3	Caesium Beta
							1 LP	HNO3	Radium 226
							1 LP	HNO3	Radium 228
							1 LP	HNO3	Uranium
							2 40mm	none	Radon in Water
							1 LP	none	ASBESTOS



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
Received By:	<u>Michael G...</u>	<u>[Signature]</u>	11-17-17	15:17
Received By:				
Received By:				
Received By:				

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: KCE

Project # 30235349

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label 34
LIMS Login PAIV

Tracking #: 1Z2747180199181466

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor _____ °C Final Temp. _____ °C
Temp should be above freezing to 6°C

Date and Initials of person sampling contents: ML 11-8-17

Comments:	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>ML</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14.
Filtered volume received for Dissolved tests All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>ML</u> Date/time of preservation _____ Lot # of added preservative _____
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: _____ Date: _____

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 01, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334575
Pace Project No.: 30235537

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334575
Pace Project No.: 30235537

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0894
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4088
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2978
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: BTMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1639 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 334575
Pace Project No.: 30235537

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235537001	334575-01	Drinking Water	11/07/17 12:30	11/09/17 09:50

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

SAMPLE ANALYTE COUNT

Project: 334575
Pace Project No.: 30235537

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235537001	334575-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roselyown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334575
Pace Project No.: 30235537

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334575
Pace Project No.: 30235537

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334575
Pace Project No.: 30235537

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Sules 2,3,4
Greensburg, PA 15601
(724)860-6800

PROJECT NARRATIVE

Project: 334575
Pace Project No.: 30235637

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseylown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-6600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334575
 Pace Project No.: 30235537

Sample: 334575-01 Lab ID: 30235537001 Collected: 11/07/17 12:30 Received: 11/09/17 09:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	-0.066 ± 0.458 (1.41) C:NA T:NA	pCi/L	11/21/17 08:38	12587-46-1	
Gross Beta	EPA 900.0	1.05 ± 0.837 (1.72) C:NA T:NA	pCi/L	11/21/17 08:38	12587-47-2	
Radium-226	EPA 903.1	0.000 ± 0.193 (0.458) C:NA T:84%	pCi/L	11/27/17 13:30	13982-63-3	
Radium-228	EPA 904.0	-0.227 ± 0.414 (1.01) C:73% T:71%	pCi/L	11/16/17 15:44	15262-20-1	
Total Uranium	ASTM D5174-97	0.156 ± 0.006 (0.193) C:NA T:NA	ug/L	11/30/17 17:50	7440-81-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334575
 Pace Project No.: 30235537

QC Batch: 278839	Analysis Method: ASTM D5174-97
QC Batch Method: ASTM D5174-97	Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 30235537001	

METHOD BLANK: 1369524	Matrix: Water
Associated Lab Samples: 30235537001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.020 ± 0.002 (0.193) C:NA T:NA	ug/L	11/21/17 13:47	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334575
 Pace Project No.: 30235537

QC Batch: 278683	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30235537001	

METHOD BLANK: 1368639 Matrix: Water
 Associated Lab Samples: 30235537001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0453 ± 0.235 (0.488) C:NA T:93%	pCi/L	11/27/17 12:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334575
 Pace Project No.: 30235537

QC Batch: 278686	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30235537001	

METHOD BLANK: 1368642	Matrix: Water
Associated Lab Samples: 30235537001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.642 ± 0.419 (0.786) C:74% T:77%	pCi/L	11/16/17 12:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334575
Pace Project No.: 30235537

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) 10.7
 Sample rec'd on ice? Yes
 Sample set up in 6 hr? Yes
 Properly preserved? Yes
 Within holding times? Yes
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCCL Number	Collection Date	Time	Matrix	Sample Description/Location	Containers No/type	Preserv- valve	Analysis Required
334515-01	11/7	12:30		<u>WYK-1</u>	1 LP	HNO3	Gross Alpha
				<u>L-1</u>	1 LP	HNO3	Gross Beta
					1 LP	HNO3	Radium 226
					1 LP	HNO3	Radium 228
					1 LP	HNO3	Uranium
					1 6mm mono		1 6mm mono
					1 6mm mono		1 6mm mono

NO# 30235537



Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
<u>BOB CLARK</u>			11/7/17	2:00
<u>John Law</u>			11/7/17	1:00
<u>McHurt-Hudson</u>			11/9/17	09:50

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL

Project # 30235537

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z274718039206097

Label	<u>Zt</u>
LIMS Login	<u>ANV</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and initials of person examining contents: Zt 11/9/17

Comments:

	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>PHLT</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>Zt</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>Zt</u> Date: <u>11/9/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/7/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334574-01
Federal ID
Description
Location L-1
Sample Point

Date Sampled 11/07/17 12:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

November 29, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334574-01
Pace Project No.: 7035162

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

547,548 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334574-01
Pace Project No.: 7035162

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE SUMMARY

Project: 334574-01
Pace Project No.: 7035162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035162001	334574-01	Drinking Water	11/07/17 12:30	11/08/17 09:50

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

SAMPLE ANALYTE COUNT

Project: 334574-01
Pace Project No.: 7035162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035162001	334574-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV
		EPA 548.1	JDT	1	PASI-O

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ANALYTICAL RESULTS

Project: 334574-01
 Pace Project No.: 7035162

Sample: 334574-01 Lab ID: 7035162001 Collected: 11/07/17 12:30 Received: 11/08/17 09:50 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 04:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 04:17	106-93-4	
505 GCS Pesticides/PCBs Analytical Method: EPA 505 Preparation Method: EPA 505									
Alachlor	<0.20	ug/L	0.20		1	11/13/17 13:21	11/13/17 19:50	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/13/17 13:21	11/13/17 19:50	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/13/17 13:21	11/13/17 19:50	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/13/17 13:21	11/13/17 19:50	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/13/17 13:21	11/13/17 19:50	60-57-1	
Endrin	<0.010	ug/L	0.010		1	11/13/17 13:21	11/13/17 19:50	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/13/17 13:21	11/13/17 19:50	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/13/17 13:21	11/13/17 19:50	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/13/17 19:50	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/13/17 19:50	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/13/17 13:21	11/13/17 19:50	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/13/17 13:21	11/13/17 19:50		
Toxaphene	<1.0	ug/L	1.0		1	11/13/17 13:21	11/13/17 19:50	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	104	%	30-150		1	11/13/17 13:21	11/13/17 19:50	877-09-8	
Decachlorobiphenyl (S)	64	%	30-150		1	11/13/17 13:21	11/13/17 19:50	2051-24-3	
515.3 Chlorinated Herbicides Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/10/17 11:00	11/12/17 01:21	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/10/17 11:00	11/12/17 01:21	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/10/17 11:00	11/12/17 01:21	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/10/17 11:00	11/12/17 01:21	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/10/17 11:00	11/12/17 01:21	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/10/17 11:00	11/12/17 01:21	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/10/17 11:00	11/12/17 01:21	93-72-1	
Surrogates									
2,4-DCAA (S)	95	%	70-130		1	11/10/17 11:00	11/12/17 01:21	19719-28-9	
531.1 HPLC Carbamates Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/18/17 11:40	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/18/17 11:40	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/18/17 11:40	1646-87-3	
Carbofuran	<0.90	ug/L	0.90		1		11/18/17 11:40	1563-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/18/17 11:40	16655-82-6	
Methomyl	<1.0	ug/L	1.0		1		11/18/17 11:40	16752-77-5	
Oxamyl	<1.0	ug/L	1.0		1		11/18/17 11:40	23135-22-0	
Carbaryl	<1.0	ug/L	1.0		1		11/18/17 11:40	63-25-2	
547 HPLC Glyphosate Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0	700	1		11/22/17 20:28		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334574-01
 Pace Project No.: 7035162

Sample: 334574-01 Lab ID: 7035162001 Collected: 11/07/17 12:30 Received: 11/08/17 09:50 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat Analytical Method: EPA 549.2 Preparation Method: EPA 549.2									
Diquat	<0.40	ug/L	0.40	20	1	11/13/17 17:14	11/14/17 08:11	85-00-7	L1
525.2 Base Neutral Extractable Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Atrazine	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:33	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/13/17 14:02	11/13/17 20:33	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:33	23184-66-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 20:33	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 20:33	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:33	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/13/17 14:02	11/13/17 20:33	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:33	1918-16-7	
Simazine	0.35	ug/L	0.070		1	11/13/17 14:02	11/13/17 20:33	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	113	%	70-130		1	11/13/17 14:02	11/13/17 20:33	81209	
Perylene-d12 (S)	100	%	70-130		1	11/13/17 14:02	11/13/17 20:33	1520963	
Triphenylphosphate (S)	74	%	70-130		1	11/13/17 14:02	11/13/17 20:33	115-86-6	
Pyrene-d10 (S)	102	%	70-130		1	11/13/17 14:02	11/13/17 20:33		
548.1 GCS Endothall Analytical Method: EPA 548.1 Preparation Method: EPA 548.1									
Endothall	<9.0	ug/L	9.0	100	1	11/14/17 13:53	11/22/17 22:36		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 46995 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7035162001

METHOD BLANK: 219399 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/17/17 17:11	
Aldicarb	ug/L	<0.50	0.50	11/17/17 17:11	
Aldicarb sulfone	ug/L	<0.80	0.80	11/17/17 17:11	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/17/17 17:11	
Carbaryl	ug/L	<1.0	1.0	11/17/17 17:11	
Carbofuran	ug/L	<0.90	0.90	11/17/17 17:11	
Methomyl	ug/L	<1.0	1.0	11/17/17 17:11	
Oxamyl	ug/L	<1.0	1.0	11/17/17 17:11	

LABORATORY CONTROL SAMPLE: 219400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.3	115	80-120	
Aldicarb	ug/L	3.8	3.9	103	80-120	
Aldicarb sulfone	ug/L	3.8	4.0	107	80-120	
Aldicarb sulfoxide	ug/L	3.8	3.9	104	80-120	
Carbaryl	ug/L	3.8	3.9	104	80-120	
Carbofuran	ug/L	3.8	4.5	119	80-120	
Methomyl	ug/L	3.8	4.2	111	80-120	
Oxamyl	ug/L	3.8	3.9	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219401 219402

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		7034800001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.3	3.6	114	96	65-135	17	20	
Aldicarb	ug/L	<0.50	3.8	3.8	3.7	3.8	99	102	65-135	2	20	
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	3.9	3.7	104	98	65-135	6	20	
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	3.9	3.8	103	102	65-135	1	20	
Carbaryl	ug/L	<1.0	3.8	3.8	3.6	3.4	97	90	65-135	7	20	
Carbofuran	ug/L	<0.90	3.8	3.8	3.6	4.2	95	111	65-135	15	20	
Methomyl	ug/L	<1.0	3.8	3.8	3.8	3.8	103	101	65-135	1	20	
Oxamyl	ug/L	<1.0	3.8	3.8	3.7	3.7	100	100	65-135	0	20	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035162001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	109	80-120	1	30	H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	103	80-120	2	30	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 46089 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035162001

METHOD BLANK: 215660 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/10/17 21:02	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/10/17 21:02	

LABORATORY CONTROL SAMPLE: 215661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.067	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.069	97	70-130	

LABORATORY CONTROL SAMPLE: 215662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.065	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.064	90	70-130	

LABORATORY CONTROL SAMPLE: 215843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	0.010	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	<0.010	93	70-130	

MATRIX SPIKE SAMPLE: 215690

Parameter	Units	7035322002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.069	96	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.074	102	65-135	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 46262 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035162001

METHOD BLANK: 216245 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/13/17 17:16	
Aldrin	ug/L	<0.025	0.025	11/13/17 17:16	
Chlordane (Technical)	ug/L	<0.20	0.20	11/13/17 17:16	
Dieldrin	ug/L	<0.050	0.050	11/13/17 17:16	
Endrin	ug/L	<0.010	0.010	11/13/17 17:16	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/13/17 17:16	
Heptachlor	ug/L	<0.025	0.025	11/13/17 17:16	
Heptachlor epoxide	ug/L	<0.020	0.020	11/13/17 17:16	
Hexachlorobenzene	ug/L	<0.10	0.10	11/13/17 17:16	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/13/17 17:16	
Methoxychlor	ug/L	<0.10	0.10	11/13/17 17:16	
PCB Screen	ug/L	<0.40	0.40	11/13/17 17:16	
Toxaphene	ug/L	<1.0	1.0	11/13/17 17:16	
Decachlorobiphenyl (S)	%	113	30-150	11/13/17 17:16	
Tetrachloro-m-xylene (S)	%	107	30-150	11/13/17 17:16	

LABORATORY CONTROL SAMPLE: 216246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.48	101	70-130	
Aldrin	ug/L	.048	0.047	99	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	93	70-130	
Endrin	ug/L	.048	0.047	98	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.058	122	70-130	
Heptachlor	ug/L	.048	0.049	102	70-130	
Heptachlor epoxide	ug/L	.048	0.045	95	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	97	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	94	70-130	
Methoxychlor	ug/L	.24	0.22	92	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			102	30-150	
Tetrachloro-m-xylene (S)	%			104	30-150	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

MATRIX SPIKE SAMPLE: 216322		7035322001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Alachlor	ug/L	<0.20	.95	0.84	88	65-135	
Aldrin	ug/L	<0.025	.095	0.079	83	65-135	
Chlordane (Technical)	ug/L	<0.20		<0.20			
Dieldrin	ug/L	<0.050	.095	0.081	85	65-135	
Endrin	ug/L	<0.010	.095	0.086	88	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.10	108	65-135	
Heptachlor	ug/L	<0.025	.095	0.087	88	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.078	82	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	83	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	90	65-135	
Methoxychlor	ug/L	<0.10	.48	0.42	87	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				89	30-150	
Tetrachloro-m-xylene (S)	%				98	30-150	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 46085 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035162001

METHOD BLANK: 215651 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/11/17 16:00	
2,4-D	ug/L	<0.10	0.10	11/11/17 16:00	
Dalapon	ug/L	<0.70	0.70	11/11/17 16:00	
Dicamba	ug/L	<1.0	1.0	11/11/17 16:00	
Dinoseb	ug/L	<0.20	0.20	11/11/17 16:00	
Pentachlorophenol	ug/L	<0.040	0.040	11/11/17 16:00	
Picloram	ug/L	<0.10	0.10	11/11/17 16:00	
2,4-DCAA (S)	%	100	70-130	11/11/17 16:00	

LABORATORY CONTROL SAMPLE: 215652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.18	92	70-130	
2,4-D	ug/L	.6	0.58	96	70-130	
Dalapon	ug/L	2	2.0	100	70-130	
Dicamba	ug/L	.2	<1.0	80	70-130	
Dinoseb	ug/L	.4	0.39	97	70-130	
Pentachlorophenol	ug/L	.2	0.18	89	70-130	
Picloram	ug/L	.2	0.15	76	70-130	
2,4-DCAA (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215653 215654

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7034498001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.19	0.17	96	84	65-135	12	20
2,4-D	ug/L	<0.10	.6	.6	0.52	0.57	83	91	65-135	9	20
Dalapon	ug/L	<0.70	2	2	1.9	1.7	96	84	65-135	13	20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	90	74	65-135		20
Dinoseb	ug/L	<0.20	.4	.4	0.38	0.31	95	78	65-135	20	20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.17	0.16	83	74	65-135	10	20
Picloram	ug/L	<0.10	.2	.2	0.15	0.14	76	70	65-135	8	20
2,4-DCAA (S)	%						108	88	70-130		20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 46076 Analysis Method: EPA 525.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035162001

METHOD BLANK: 215604 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/13/17 14:47	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/13/17 14:47	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/13/17 14:47	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/13/17 14:47	
Butachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metolachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metribuzin	ug/L	<0.50	0.50	11/13/17 14:47	
Propachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Simazine	ug/L	<0.070	0.070	11/13/17 14:47	
1,3-Dimethyl-2-nitrobenzene(S)	%	105	70-130	11/13/17 14:47	
Perylene-d12 (S)	%	103	70-130	11/13/17 14:47	
Pyrene-d10 (S)	%	96	70-130	11/13/17 14:47	
Triphenylphosphate (S)	%	93	70-130	11/13/17 14:47	

LABORATORY CONTROL SAMPLE: 215605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	1.7	87	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	94	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.3	114	70-130	
Butachlor	ug/L	2	1.5	76	70-130	
Metolachlor	ug/L	2	1.9	93	70-130	
Metribuzin	ug/L	2	1.8	89	70-130	
Propachlor	ug/L	2	1.8	92	70-130	
Simazine	ug/L	2	1.9	95	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			105	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			95	70-130	
Triphenylphosphate (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215606 215607

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7034483001 Result	Spike Conc.	Spike Conc.	MS Result							
Atrazine	ug/L	<0.10	2	2	1.7	1.4	84	72	70-130	16	30	
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	1.7	104	85	70-130	20	30	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	2.1	1.8	107	90	70-130	17	30	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

Parameter	Units	215606		215607		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		7034483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.6	2.2	123	105	70-130	15	30
Butachlor	ug/L	<0.10	2	2	1.7	2.0	87	101	70-130	15	30
Metolachlor	ug/L	<0.10	2	2	1.8	2.5	92	123	70-130	29	30
Metribuzin	ug/L	<0.50	2	2	1.8	1.5	88	73	70-130	19	30
Propachlor	ug/L	<0.10	2	2	1.9	11.1	93	554	70-130	143	30 M1,R1
Simazine	ug/L	<0.070	2	2	1.9	1.3	96	63	70-130	42	30 M1,R1
1,3-Dimethyl-2-nitrobenzene(S)	%						97	0	70-130		30 S0
Perylene-d12 (S)	%						98	97	70-130		30
Pyrene-d10 (S)	%						97	136	70-130		30 S0
Triphenylphosphate (S)	%						83	77	70-130		30

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 405298 Analysis Method: EPA 548.1
 QC Batch Method: EPA 548.1 Analysis Description: 548 GCS Endothall
 Associated Lab Samples: 7035162001

METHOD BLANK: 2212993 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Endothall	ug/L	<9.0	9.0	11/22/17 21:48	

LABORATORY CONTROL SAMPLE: 2212994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	50	45.1	90	80-120	

LABORATORY CONTROL SAMPLE: 2212995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	9	10.3	115	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2212996 2212997

Parameter	Units	35347132001		2212997		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Endothall	ug/L	4.3U	50	50	46.2	43.7	92	87	80-120	6	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2213587 2213589

Parameter	Units	35347691001		2213589		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Endothall	ug/L	4.3U	50	50	28.8	22.6	58	45	80-120	24	30 M1	

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QUALITY CONTROL DATA

Project: 334574-01
 Pace Project No.: 7035162

QC Batch: 405060 Analysis Method: EPA 549.2
 QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
 Associated Lab Samples: 7035162001

METHOD BLANK: 2211905 Matrix: Water
 Associated Lab Samples: 7035162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/14/17 06:39	

LABORATORY CONTROL SAMPLE: 2211906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	3.7	186	70-130	L1

LABORATORY CONTROL SAMPLE: 2211907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	88	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211908 2211909

Parameter	Units	7035146004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Diquat	ug/L	<0.40	2	2	2.3	2.4	116	121	70-130	5	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211910 2211911

Parameter	Units	7035163001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Diquat	ug/L	<0.40	2	2	3.5	3.4	176	171	70-130	3	30	M1

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QUALIFIERS

Project: 334574-01
Pace Project No.: 7035162

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334574-01
Pace Project No.: 7035162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035162001	334574-01	EPA 504.1	46089	EPA 504.1	46190
7035162001	334574-01	EPA 505	46262	EPA 505	46356
7035162001	334574-01	EPA 515.3	46085	EPA 515.3	46182
7035162001	334574-01	EPA 531.1	46995		
7035162001	334574-01	EPA 547	407599		
7035162001	334574-01	EPA 549.2	405060	EPA 549.2	405293
7035162001	334574-01	EPA 525.2	46076	EPA 525.2	46320
7035162001	334574-01	EPA 548.1	405298	EPA 548.1	405973

REPORT OF LABORATORY ANALYSIS

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WO#: 7035162



7035162

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) _____
 Sample rec'd on ice? KS
 Sample set up in 6 hr? KS
 Properly preserved? KS
 Within holding times? KS
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection		Comp	grab	Matrix	Sample Description/Location	Containers Qty/type	Preser- vative	Cl Resid	Analysis Required
	Date	Time								
355574-0117	11/17	12:30				64771 L-1	2 40ml G	lthio		SOC Testing Table 9C Complete 001
							2 40ml G	lthio		EPA 504
							1 250ml G	lthio		EPA 505
							2 1L G	sulfite		EPA 515.3
							2 40ml G	lthio		EPA 525.2
										EPA 531.1
							3 40ml G	lthio		EPA 547 Glyphosate
							1 250ml G	lthio		EPA 548 Endothall
							1 1L Poly	none		EPA 549 Diquat
							1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print sign	date: time:	11/17/17	Received By:	print sign	date: time:	11/17/17
Relinquished By:	print sign	date: time:	11/17/17	Received By:	print sign	date: time:	11/17/17
Relinquished By:	print sign	date: time:	11/17/17	Received By:	print sign	date: time:	11/17/17
Relinquished By:	print sign	date: time:	11/17/17	Received By:	print sign	date: time:	11/17/17



Sample Condition Upon Receipt

Client Name: OCL

Project

WO#: 7035162

PM: JM2 Due Date: 11/22/17

CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1Z 27Y 71R 03 9532 8687

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.2

Cooler Temperature Corrected (°C): 5.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: CB 1/8/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Reinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HC601354</u>			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y <u>N</u>
Residual chlorine strips Lot # <u>033117L</u>			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.01

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/14/2017
Date Complete 12/15/2017
Date Printed 12/15/2017

Sample Number 334787-01
Federal ID
Description
Location L-2
Sample Point

Date Sampled 11/14/17 10:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
576 Broad Hollow Road
Melville, NY 11747
(831)884-3040

December 14, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334787-01
Pace Project No.: 7035824

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

547 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

548 samples were subcontracted to TA-Georgia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)894-3040

December 14, 2017
Page 2

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager

Enclosures



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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)894-3040

CERTIFICATIONS

Project: 334787-01
Pace Project No.: 7035824

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 238
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D8947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 480165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9982C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)894-3040

SAMPLE SUMMARY

Project: 334787-01
Pace Project No.: 7035824

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7036824001	334787-01	Drinking Water	11/14/17 10:30	11/15/17 10:35

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SAMPLE ANALYTE COUNT

Project: 334787-01
Pace Project No.: 7035824

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035824001	334787-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV

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ANALYTICAL RESULTS

Project: 334787-01
 Pace Project No.: 7035824

Sample: 334787-01 Lab ID: 7035824001 Collected: 11/14/17 10:30 Received: 11/15/17 10:35 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/17/17 14:57	11/17/17 22:10	96-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/17/17 14:57	11/17/17 22:10	106-93-4	
505 GCS Pesticides/PCBs									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Alachlor	<0.20	ug/L	0.20		1	11/20/17 13:36	11/20/17 21:42	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/20/17 13:36	11/20/17 21:42	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/20/17 13:36	11/20/17 21:42	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/20/17 13:36	11/20/17 21:42	67-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/20/17 13:36	11/20/17 21:42	60-57-1	
Endrin	<0.010	ug/L	0.010		1	11/20/17 13:36	11/20/17 21:42	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/20/17 13:36	11/20/17 21:42	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/20/17 13:36	11/20/17 21:42	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 21:42	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 21:42	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 21:42	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/20/17 13:36	11/20/17 21:42		
Toxaphene	<1.0	ug/L	1.0		1	11/20/17 13:36	11/20/17 21:42	8001-35-2	
<i>Surrogates</i>									
Tetrachloro-m-xylene (S)	106	%	30-150		1	11/20/17 13:36	11/20/17 21:42	877-09-8	
Decachlorobiphenyl (S)	58	%	30-150		1	11/20/17 13:36	11/20/17 21:42	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/17/17 14:00	11/22/17 23:08	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/17/17 14:00	11/22/17 23:08	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/17/17 14:00	11/22/17 23:08	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/17/17 14:00	11/22/17 23:08	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/17/17 14:00	11/22/17 23:08	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/17/17 14:00	11/22/17 23:08	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/17/17 14:00	11/22/17 23:08	93-72-1	
<i>Surrogates</i>									
2,4-DCAA (S)	93	%	70-130		1	11/17/17 14:00	11/22/17 23:08	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/23/17 00:37	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/23/17 00:37	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/23/17 00:37	1646-87-3	L1
Carbofuran	<0.90	ug/L	0.90		1		11/23/17 00:37	1583-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/23/17 00:37	16855-82-8	L1
Methomyl	<1.0	ug/L	1.0		1		11/23/17 00:37	16752-77-5	
Oxamyl	<1.0	ug/L	1.0		1		11/23/17 00:37	23135-22-0	
Carbaryl	<1.0	ug/L	1.0		1		11/23/17 00:37	63-25-2	
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0		700		11/22/17 22:16		

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ANALYTICAL RESULTS

Project: 334787-01
 Pace Project No.: 7035824

Sample: 334787-01		Lab ID: 7035824001		Collected: 11/14/17 10:30		Received: 11/15/17 10:35		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat		Analytical Method: EPA 549.2 Preparation Method: EPA 549.2							
Diquat	<0.40	ug/L	0.40	20	1	11/20/17 21:02	11/21/17 02:01	85-00-7	
525.2 Base Neutral Extractable		Analytical Method: EPA 525.2 Preparation Method: EPA 525.2							
Atrazine	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 02:04	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/17/17 18:11	11/28/17 02:04	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 02:04	23184-88-9	
bis(2-Ethylhexyl)adipate	<0.80	ug/L	0.80		1	11/17/17 18:11	11/28/17 02:04	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.80	ug/L	0.80		1	11/17/17 18:11	11/28/17 02:04	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 02:04	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/17/17 18:11	11/28/17 02:04	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 02:04	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/17/17 18:11	11/28/17 02:04	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	100	%	70-130		1	11/17/17 18:11	11/28/17 02:04	81209	
Perylene-d12 (S)	95	%	70-130		1	11/17/17 18:11	11/28/17 02:04	1520963	
Triphenylphosphate (S)	121	%	70-130		1	11/17/17 18:11	11/28/17 02:04	115-86-8	
Pyrene-d10 (S)	115	%	70-130		1	11/17/17 18:11	11/28/17 02:04		

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 47317 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7035824001

METHOD BLANK: 220707 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/22/17 14:32	
Aldicarb	ug/L	<0.50	0.50	11/22/17 14:32	
Aldicarb sulfone	ug/L	<0.80	0.80	11/22/17 14:32	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/22/17 14:32	
Carbaryl	ug/L	<1.0	1.0	11/22/17 14:32	
Carbofuran	ug/L	<0.90	0.90	11/22/17 14:32	
Methomyl	ug/L	<1.0	1.0	11/22/17 14:32	
Oxamyl	ug/L	<1.0	1.0	11/22/17 14:32	

LABORATORY CONTROL SAMPLE: 220708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.6	123	80-120	L1
Aldicarb	ug/L	3.8	3.6	97	80-120	
Aldicarb sulfone	ug/L	3.8	4.1	110	80-120	
Aldicarb sulfoxide	ug/L	3.8	4.8	127	80-120	L1
Carbaryl	ug/L	3.8	3.9	104	80-120	
Carbofuran	ug/L	3.8	4.5	119	80-120	
Methomyl	ug/L	3.8	4.2	112	80-120	
Oxamyl	ug/L	3.8	4.4	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 220709 220710

Parameter	Units	220709		220710		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7036217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.4	4.9	118	131	65-135	10 20
Aldicarb	ug/L	<0.50	3.8	3.8	3.7	3.7	99	100	65-135	1 20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	4.2	4.3	113	115	65-135	2 20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	4.4	4.8	117	127	65-135	8 20
Carbaryl	ug/L	<1.0	3.8	3.8	3.8	4.0	100	106	65-135	6 20
Carbofuran	ug/L	<0.90	3.8	3.8	4.4	5.2	117	138	65-135	17 20 M1
Methomyl	ug/L	<1.0	3.8	3.8	4.3	4.7	115	125	65-135	8 20
Oxamyl	ug/L	<1.0	3.8	3.8	4.3	5.0	115	133	65-135	14 20

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035824001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:08	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001		2225135		2225136		% Rec Limits	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result			
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1 30 H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001		2225137		2225138		% Rec Limits	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result			
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	80-120	2 30

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 46975 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035824001

METHOD BLANK: 219308 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/17/17 17:18	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/17/17 17:18	

LABORATORY CONTROL SAMPLE: 219307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.065	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.060	84	70-130	

LABORATORY CONTROL SAMPLE: 219308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	<0.010	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	<0.010	73	70-130	

LABORATORY CONTROL SAMPLE: 219309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.062	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.064	90	70-130	

MATRIX SPIKE SAMPLE: 219310

Parameter	Units	7035537001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.059	82	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.057	79	65-135	

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 47107 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035824001

METHOD BLANK: 219987 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/20/17 18:25	
Aldrin	ug/L	<0.025	0.025	11/20/17 18:25	
Chlordane (Technical)	ug/L	<0.20	0.20	11/20/17 18:25	
Dieldrin	ug/L	<0.050	0.050	11/20/17 18:25	
Endrin	ug/L	<0.010	0.010	11/20/17 18:25	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/20/17 18:25	
Heptachlor	ug/L	<0.025	0.025	11/20/17 18:25	
Heptachlor epoxide	ug/L	<0.020	0.020	11/20/17 18:25	
Hexachlorobenzene	ug/L	<0.10	0.10	11/20/17 18:25	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/20/17 18:25	
Methoxychlor	ug/L	<0.10	0.10	11/20/17 18:25	
PCB Screen	ug/L	<0.40	0.40	11/20/17 18:25	
Toxaphene	ug/L	<1.0	1.0	11/20/17 18:25	
Decachlorobiphenyl (S)	%	79	30-150	11/20/17 18:25	
Tetrachloro-m-xylene (S)	%	110	30-150	11/20/17 18:25	

LABORATORY CONTROL SAMPLE: 219988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.40	83	70-130	
Aldrin	ug/L	.048	0.041	87	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	88	70-130	
Endrin	ug/L	.048	0.041	85	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.051	108	70-130	
Heptachlor	ug/L	.048	0.039	82	70-130	
Heptachlor epoxide	ug/L	.048	0.041	88	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	89	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	70	70-130	
Methoxychlor	ug/L	.24	0.19	81	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			84	30-150	
Tetrachloro-m-xylene (S)	%			101	30-150	

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

MATRIX SPIKE SAMPLE:		219991					
Parameter	Units	7035805001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	<0.20	.95	0.89	94	65-135	
Aldrin	ug/L	<0.025	.095	0.10	107	65-135	
Chlordane (Technical)	ug/L	<0.20		0.70			
Dieldrin	ug/L	<0.050	.095	0.095	99	65-135	
Endrin	ug/L	<0.010	.095	0.094	99	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.11	119	65-135	
Heptachlor	ug/L	<0.025	.095	0.10	107	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.088	92	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	98	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	88	65-135	
Methoxychlor	ug/L	<0.10	.48	0.47	97	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				97	30-150	
Tetrachloro-m-xylene (S)	%				121	30-150	

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 47034 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035824001

METHOD BLANK: 219535 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/22/17 11:47	
2,4-D	ug/L	<0.10	0.10	11/22/17 11:47	
Dalapon	ug/L	<0.70	0.70	11/22/17 11:47	
Dicamba	ug/L	<1.0	1.0	11/22/17 11:47	
Dinoseb	ug/L	<0.20	0.20	11/22/17 11:47	
Pentachlorophenol	ug/L	<0.040	0.040	11/22/17 11:47	
Picloram	ug/L	<0.10	0.10	11/22/17 11:47	
2,4-DCAA (S)	%	104	70-130	11/22/17 11:47	

LABORATORY CONTROL SAMPLE: 219538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.22	108	70-130	
2,4-D	ug/L	.6	0.64	108	70-130	
Dalapon	ug/L	2	2.1	104	70-130	
Dicamba	ug/L	.2	<1.0	91	70-130	
Dinoseb	ug/L	.4	0.38	91	70-130	
Pentachlorophenol	ug/L	.2	0.20	99	70-130	
Picloram	ug/L	.2	0.20	102	70-130	
2,4-DCAA (S)	%			115	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219537 219538

Parameter	Units	219537		219538		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		7035498003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.20	0.20	98	100	65-135	2	20
2,4-D	ug/L	<0.10	.6	.6	0.60	0.58	99	97	65-135	2	20
Dalapon	ug/L	<0.70	2	2	1.9	2.0	96	98	65-135	2	20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	99	105	65-135		20
Dinoseb	ug/L	<0.20	.4	.4	0.37	0.38	93	96	65-135	3	20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.18	0.18	83	83	65-135	0	20
Picloram	ug/L	<0.10	.2	.2	0.16	0.16	78	80	65-135	1	20
2,4-DCAA (S)	%						97	97	70-130		20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 48977 Analysis Method: EPA 525.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035824001

METHOD BLANK: 219311 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/27/17 19:54	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/27/17 19:54	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/27/17 19:54	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/27/17 19:54	
Butachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Metolachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Metribuzin	ug/L	<0.50	0.50	11/27/17 19:54	
Propachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Simazine	ug/L	<0.070	0.070	11/27/17 19:54	
1,3-Dimethyl-2-nitrobenzene(S)	%	104	70-130	11/27/17 19:54	
Perylene-d12 (S)	%	93	70-130	11/27/17 19:54	
Pyrene-d10 (S)	%	102	70-130	11/27/17 19:54	
Triphenylphosphate (S)	%	100	70-130	11/27/17 19:54	

LABORATORY CONTROL SAMPLE: 219312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	2.1	104	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	93	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.1	108	70-130	
Butachlor	ug/L	2	1.7	87	70-130	
Metolachlor	ug/L	2	1.8	89	70-130	
Metribuzin	ug/L	2	2.0	98	70-130	
Propachlor	ug/L	2	2.1	107	70-130	
Simazine	ug/L	2	2.1	105	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			95	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			107	70-130	
Triphenylphosphate (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219434 219435

Parameter	Units	219434		219435		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Atrazine	ug/L	<0.10	2	2.2	1.8	109	90	70-130	19	30
Benzo(a)pyrene	ug/L	<0.020	2	2.1	2.0	103	102	70-130	1	30
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	1.9	1.7	95	85	70-130	11	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

Parameter	Units	219434		219435		MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		7035704001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.4	2.2	114	107	70-130	7	30		
Butachlor	ug/L	<0.10	2	2	2.1	1.7	103	84	70-130	21	30		
Metolachlor	ug/L	<0.10	2	2	1.9	1.9	93	93	70-130	0	30		
Metribuzin	ug/L	<0.50	2	2	2.1	2.1	103	108	70-130	2	30		
Propachlor	ug/L	<0.10	2	2	1.9	1.9	97	96	70-130	1	30		
Simazine	ug/L	<0.070	2	2	1.8	1.8	88	89	70-130	1	30		
1,3-Dimethyl-2-nitrobenzene(S)	%						95	95	70-130		30		
Perylene-d12 (S)	%						102	104	70-130		30		
Pyrene-d10 (S)	%						109	117	70-130		30		
Triphenylphosphate (S)	%						108	108	70-130		30		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334787-01
 Pace Project No.: 7035824

QC Batch: 406913 Analysis Method: EPA 549.2
 QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
 Associated Lab Samples: 7035824001

METHOD BLANK: 2221786 Matrix: Water
 Associated Lab Samples: 7035824001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/21/17 00:51	

LABORATORY CONTROL SAMPLE: 2221787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.8	81	70-130	

LABORATORY CONTROL SAMPLE: 2221788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	78	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221789 2221790

Parameter	Units	2221789		2221790		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual	
		50184178002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Diquat	ug/L	ND	2	2	1.7	1.7	85	85	70-130	0	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221791 2221792

Parameter	Units	2221791		2221792		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual	
		7035704001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Diquat	ug/L	<0.40	2	2	1.8	1.9	88	94	70-130	6	30	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334787-01
Pace Project No.: 7035824

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)894-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334787-01
Pace Project No.: 7035824

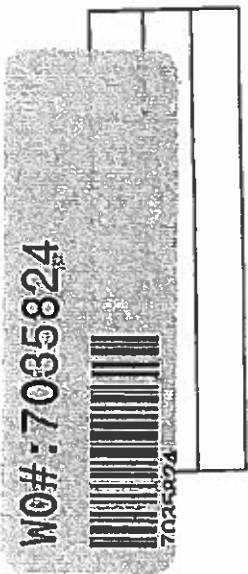
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035824001	334787-01	EPA 504.1	46975	EPA 504.1	47037
7035824001	334787-01	EPA 505	47107	EPA 505	47189
7035824001	334787-01	EPA 515.3	47034	EPA 515.3	47219
7035824001	334787-01	EPA 531.1	47317		
7035824001	334787-01	EPA 547	407599		
7035824001	334787-01	EPA 549.2	406913	EPA 549.2	407042
7035824001	334787-01	EPA 525.2	46977	EPA 525.2	47057

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____



OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 3 hr? _____
 Property preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl. Resid	Analysis Required
32518701	4/11	10:30		L-2	2 40ml G	thio		SOC Testing Table 9C Complete
					2 40ml G	thio		EPA 504 -
					1 250ml G	thio		EPA 505 -
					2 1L G	sulfite		EPA 515.3
					2 40ml G	thio		EPA 525.2
								EPA 531.1
					3 40ml G	thio		EPA 547 Glyphosate
					1 250ml G	thio		EPA 548 Endothal
					1 1L Poly	none		EPA 549 Diquat
					1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
Received By:			4/11/17	1:40
Received By:			4/11/17	10:35
Received By:				
Received By:				



Sample Condition Upon Receipt

Client Name: _____

Pro: _____

WO#: 7035824

PM: JM2 Due Date: 12/01/17

CLIENT: OGL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1Z NFO 744 03 0002 618

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on Ice, cooling process has begun

Cooler Temperature (°C): 2.8

Outdoor Temperature Corrected (°C): 2.9

Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 5.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: SB 11/15/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for MS/MSD):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No		9.
-Paco Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		12.
-Includes date/time/D/Analysis Matrix SL (WT) OIL			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # HC601354			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		(Initial when completed): Lot # of added preservative: Date/Time preservative added
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). For Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		14. Positive for Res. Chlorine? Y N
Residual chlorine sample #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		10.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if applicable):			

Field Data Required? Y / N

Client Notification/ Resolution: _____

Date/Time: _____

Person Contacted: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

James Murphy
PASI Long Island
2190 Technology Drive
Schenectady NY 12308

Report Information:

Pace Project #: 10411371
Sample Receipt Date: 11/16/2017
Client Project #: 7035824
Client Sub PO #: L9101
State Cert #: 11647

**REPORT OF
LABORATORY
ANALYSIS FOR
2,3,7,8-TCDD**

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

This report has been reviewed by:

November 28, 2017

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:

November 28, 2017



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	CERT0092
Alaska	MN00064	Nebraska	NE-OS-18-06
Alaska	UST-078	Nevada	MN00064
Arizona	AZ0014	New Jersey (NE	MN002
Arkansas	88-0680	New York (NEL	11647
CNMI Saipan	MP0003	New Hampshire	2081
California	MN00064	North Carolina	27700
Colorado	MN00064	North Carolina	530
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-L	Ohio	41244
Florida (NELAP	E87605	Ohio VAP	CL101
Georgia (EDP)	959	Oklahoma	9507
Guam EPA	959	Oregon (ELAP)	MN200001
Hawaii	MN00064	Oregon (OREL	MN300001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200011	Puerto Rico	MN00064
Indiana	C-MN-01	South Carolina	74003001
Iowa	388	Tennessee	TN02818
Kansas	E-10167	Texas	T104704192
Kentucky	90062	Utah (NELAP)	MN00064
Louisiana	03086	Virginia	460163
Louisiana	MN00064	Washington	C486
Maine	MN00064	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-L

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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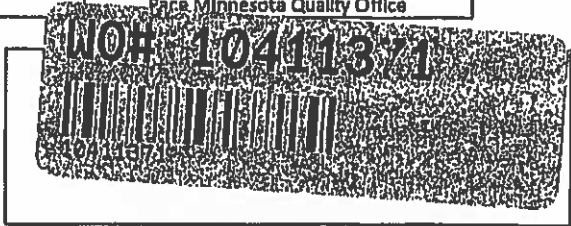
Report No.....10411371_1613DW_DFR

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 30Aug2017
	Document No.: F-MN-L-213-rev.21	Page 1 of 2 Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pesi - NY

Project #:



Courier: Fed Ex UPS USPS Client
 Commercial Pace SpaeDee Other:
 Tracking Number: 4158-3814-1734, 4158-3814-1745

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: Temp Blank? Yes No

Thermometer LS1401163 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun
 Used: G87A9155100842

Cooler Temp Read (°C): 3.5, 3.2 Cooler Temp Corrected (°C): 3.1, 2.8 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: -0.4 Date and Initials of Person Examining Contents: 11-16-17

USDA Regulated Soil (N/A, water sample) Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	12.
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DDC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature]

Date: 11/16/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN, 55414

Drinking Water Analysis Results
2,3,7,8-TCDD -- USEPA Method 1613B

Tel: 612-607-1700
Fax: 612-607-6444

Sample ID.....334787-01
Client..... PASI Long Island
Lab Sample ID..... 7035824001

Date Collected.....11/14/2017
Date Received.....11/16/2017
Date Extracted.....11/17/2017

	Sample 334787-01	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
LOQ	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	117%	116%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD				0.4%
IS Recovery	31%	41%	51%	47%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	44%	48%	58%	61%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F171121B_08	F171121A_15	F171121A_07	F171121A_08
Analysis Date	11/22/2017	11/21/2017	11/21/2017	11/21/2017
Analysis Time	02:11	18:09	12:35	13:29
Analyst	ZMS	ZMS	ZMS	ZMS
Volume	0.971L	1.023L	1.056L	1.055L
Dilution	NA	NA	NA	NA
ICAL Date	08/12/2017	08/12/2017	08/12/2017	08/12/2017
CCAL Filename	F171121B_02	F171121A_06	F171121A_06	F171121A_06

- ! = Outside the Control Limits
- ND = Not Detected
- LOQ = Limit of Quantitation
- Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
- RPD = Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard [2,3,7,8-TCDD-¹³C₁₂]
- CS = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₄]

Analyst: Zakariya Salah

Project No.....10411371
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145698-2
Client Project/Site: 334787-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 1:07:29 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-146698-2

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSO exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

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11/27/2017

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145698-2	334787-01	Water	11/14/17 10:30	11/16/17 09:15

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TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Job ID: 680-145698-2

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-145698-2

Comments

No additional comments.

Receipt

The samples were received on 11/16/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS Semi VOA

Method(s) 548.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503421 recovered outside control limits for the following analytes: Endothall.

Method(s) 548.1, 548.1 LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-503274 and analytical batch 680-503421 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 548.1, 548.1 LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503421 recovered outside control limits for the following analytes: Endothall.

Method(s) 548.1, 548.1 LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-503274 and analytical batch 680-503692 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 548.1, 548.1 LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503829 recovered outside control limits for the following analytes: Endothall.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Client Sample ID: 334787-01

Lab Sample ID: 680-145698-2

Date Collected: 11/14/17 10:30

Matrix: Water

Date Received: 11/16/17 09:15

Method: 548.1 - Endothall (GC/MS)

Analyte

Result Qualifier

RL

MDL Unit

D

Prepared

Analyzed

Dil Fac

Endothall

ND

*

10.0

6.30 ug/L

11/20/17 08:41

11/20/17 23:03

1

5

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QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503274/18-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503274

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0	6.30	ug/L		11/20/17 08:41	11/20/17 17:43	1

Lab Sample ID: LCS 680-503274/19-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503274

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
Endothall	Added	Result	Qualifier	ug/L		83	45 - 125
	25.0	20.73					

Lab Sample ID: LCSD 680-503274/20-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 503274

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
Endothall	Added	Result	Qualifier	ug/L		124	45 - 125	40	30
	25.0	31.08	*						

Lab Sample ID: LLCS 680-503274/21-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503274

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	Limits
Endothall	Added	Result	Qualifier	ug/L		106	60 - 160
	10.0	10.55					

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

GC/MS Semi VOA

Prep Batch: 503274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145698-2	334787-01	Total/NA	Water	548.1	
MB 680-503274/18-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503274/19-A	Lab Control Sample	Total/NA	Water	548.1	
LCSD 680-503274/20-A	Lab Control Sample Dup	Total/NA	Water	548.1	
LLCS 680-503274/21-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145698-2	334787-01	Total/NA	Water	548.1	503274
MB 680-503274/18-A	Method Blank	Total/NA	Water	548.1	503274
LCS 680-503274/19-A	Lab Control Sample	Total/NA	Water	548.1	503274
LCSD 680-503274/20-A	Lab Control Sample Dup	Total/NA	Water	548.1	503274
LLCS 680-503274/21-A	Lab Control Sample	Total/NA	Water	548.1	503274

Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Client Sample ID: 334787-01

Lab Sample ID: 680-145698-2

Date Collected: 11/14/17 10:30

Matrix: Water

Date Received: 11/16/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	603274	11/20/17 06:41	MAV	TAL SAV
Total/NA	Analysis	548.1		1			503421	11/20/17 23:03	KNW	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	08-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	6	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	08-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	8	30813	08-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	08-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	08-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2983	10-09-18
New Jersey	NELAP	2	TN985	08-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-148	08-30-18
Ohio VAP	State Program	6	CL0033	07-08-19
Oklahoma	State Program	8	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LA000268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-18-17
Tennessee	State Program	4	2088	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00308	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	480152	08-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	988020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

TestAmerica Savannah

Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334787-01

TestAmerica Job ID: 680-145698-2

Method	Method Description	Protocol	Laboratory
548.1	Endothal (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody



Workorder: 7035824

Workorder Name: 334787-01

Results Requested By: 12/1/2017

Report/Invoice To
 James Murphy
 Pace Analytical New York
 2150 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email james.murphy@pacelabs.com

TA-GA

P.O. _____

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Request Analysis	LAB USE ONLY
					1	2		
1	334787-01	11/14/2017 10:30	7035824001	Drinking			X	
2								
3								
4								
5								
Comments								
Transfers	Released By	Date/Time	Received By	Date/Time				
1	<i>James</i>	11/15/17 16:00	<i>NY</i>	11/17 9:17	NY Samples			
2					4/11/17.3			
3								
Cooler Temperature on Receipt		°C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N			

Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-145698-2

Login Number: 145698

List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

Question	Answer	Comment
Radioactivity wasn't checked or is \neq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334785-01			L-3					Drinking Water
Chloride	<4.00	mg/L	SM20 4500CL-C-9 7	250		11/21/17 0:00	JR	
Color (apparent)	25		SM20 2120B-01	15		11/14/17 14:50	AM	
Alkalinity as CaCO3	<10.0	mg/L	SM20 2320B-97			11/21/17 0:00	AM	
Hardness as CaCO3, Calcium	<10.0	mg/L	SM20 3500CaB-97			11/15/17 13:10	JR	
pH	4.74		SM20 2330H+B			11/14/17 14:45	AM	H3
Corrosivity Index (LI)	-6.30		SM20 2330			11/21/17 0:00	AM	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/21/17 0:00	JR	
Nitrate/Nitrite as N	<0.0500	mg/L	La10107041C	10.0		11/15/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B- nn	1.0		11/14/17 15:00	AM	
Odor at 60C	None		SM20 2150B-97	3		11/14/17 14:50	AM	OD
Solids, Dissolved Total	32.0	mg/L	SM20 2540C-97	500		11/15/17 14:15	AM	
Turbidity	5.75	ntu	SM20 2130B-01	1		11/14/17 15:15	AM	
334785-02			L-3					Drinking Water
1,1,1,2-Tetrachloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,1,1-Trichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,1,2,2-Tetrachloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,1,2-Trichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,1-Dichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,1-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,1-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,2,3-Trichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,2,3-Trichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,2,4-Trichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,2,4-Trimethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
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Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334785-02				L-3				Drinking Water
1,2-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,2-Dichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,2-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,3,5-Trimethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,3-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,3-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
1,4-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
2,2-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
2-Chlorotoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
4-Chlorotoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Benzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Bromobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Bromochloromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Bromomethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Carbon tetrachloride	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Chlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Chloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Chloromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Dibromomethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Dichlorodifluoromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Ethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Hexachlorobutadiene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Isopropylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Methyl tert-butyl ether	<1.0	ug/L	EPA 524.2	10	11/17/17 2:22	11/17/17 2:22	EL	U
Methylene chloride	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Styrene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Tetrachloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Toluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Trichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Trichlorofluoromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U

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Certificate of Analysis

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2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334785-02			L-3					Drinking Water
Vinyl chloride	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
cis-1,2-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
cis-1,3-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
n-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
n-Propylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
p-Isopropyltoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
sec-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
tert-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
trans-1,2-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
trans-1,3-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Xylenes, Total	<1.0	ug/L	EPA 524.2	5	11/17/17 2:22	11/17/17 2:22	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2		11/17/17 2:22	11/16/17 7:57	EL	U
Bromoform	<0.50	ug/L	EPA 524.2		11/17/17 2:22	11/16/17 7:57	EL	U
Chloroform	<0.50	ug/L	EPA 524.2		11/17/17 2:22	11/16/17 7:57	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/16/17 7:57	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/16/17 7:57	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 10:35	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 10:35	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 10:35	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 10:35	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 10:35	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/20/17 9:30	11/20/17 10:35	EL	U
Arsenic, As	<0.010	mg/L	EPA 200.7	0.01	11/17/17 9:50	11/20/17 8:09	EL	U
Barium, Ba	<0.20	mg/L	EPA 200.7	2.00	11/17/17 9:50	11/20/17 8:09	EL	U
Cadmium, Cd	<0.0050	mg/L	EPA 200.7	0.005	11/17/17 9:50	11/20/17 8:09	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.7	0.10	11/17/17 9:50	11/20/17 8:09	EL	U
Lead, Pb	<0.0050	mg/L	EPA 200.7	0.015	11/17/17 9:50	11/20/17 8:09	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1	0.002	11/21/17 10:30	11/22/17 1:28	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

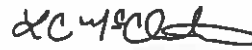
Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334785-02								Drinking Water
			L-3					
Selenium, Se	<0.010	mg/L	EPA 200.7	0.05	11/17/17 9:50	11/20/17 8:09	EL	U
Silver, Ag	<0.010	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:09	EL	U
Copper, Cu	<0.025	mg/L	EPA 200.7	1.3	11/17/17 9:50	11/20/17 8:09	EL	U
Iron, Fe	1.1	mg/L	EPA 200.7	0.3	11/17/17 9:50	11/20/17 8:09	EL	
Manganese, Mn	0.069	mg/L	EPA 200.7	0.3	11/17/17 9:50	11/20/17 8:09	EL	
Sodium, Na	1.9	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:09	EL	
Zinc, Zn	<0.020	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:09	EL	U
Antimony, Sb	<0.060	mg/L	EPA 200.7	0.006	11/17/17 9:50	11/20/17 8:09	EL	U
Beryllium, Be	<0.0050	mg/L	EPA 200.7	0.004	11/17/17 9:50	11/20/17 8:09	EL	U
Nickel, Ni	<0.040	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:09	EL	U
Thallium, Tl	<0.010	mg/L	EPA 200.7	0.002	11/17/17 9:50	11/20/17 8:09	EL	U
Cyanide, Total	<0.010	mg/L	EPA 335.4		11/17/17 10:30	11/17/17 3:03	EL	U
Sulfate	5.7	mg/L	EPA 300.0	250		11/16/17 1:48	EL	

EL = Analysis by Envirotest Laboratories #10142

334785-03								Drinking Water
			L-3					
Fecal Coliform, MF	<5	cfu/100ml	SM9222D-97			11/14/17 15:10	AM	

Approved By



Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- H3 = This analysis is no longer ELAP certified.
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

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Certificate of Analysis

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2142 Route 302
Circleville, NY 10919

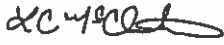
Project
Date Received 11/14/2017
Date Complete 12/15/2017
Date Printed 12/15/2017

Sample Number 334784-01
Federal ID
Description
Location L-3
Sample Point

Date Sampled 11/14/17 12:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

December 14, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334784-01
Pace Project No.: 7035821

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

547 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

548 samples were sub contracted to TA-Georgia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)684-3040

December 14, 2017
Page 2

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager

Enclosures



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Melville, NY 11747
(631)894-3040

CERTIFICATIONS

Project: 334784-01
Pace Project No.: 7035821

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #348
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 238
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 88-00547
Puerto Rico Certification #: FLD1284
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460185
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 88-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY028
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
675 Broad Hollow Road
Melville, NY 11747
(631)894-3040

SAMPLE SUMMARY

Project: 334784-01
Pace Project No.: 7035821

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035821001	334784-01	Drinking Water	11/14/17 12:30	11/15/17 14:48

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(631)694-3040

SAMPLE ANALYTE COUNT

Project: 334784-01
Pace Project No.: 7035821

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035821001	334784-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 625.2	EAG	13	PACE-MV

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334784-01
 Pace Project No.: 7035821

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 334784-01 Lab ID: 7035821001 Collected: 11/14/17 12:30 Received: 11/15/17 14:48 Matrix: Drinking Water									
504.1 GCS EDB and DBCP Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/17/17 14:57	11/17/17 21:21	98-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/17/17 14:57	11/17/17 21:21	108-93-4	
505 GCS Pesticides/PCBs Analytical Method: EPA 505 Preparation Method: EPA 505									
Alachlor	<0.20	ug/L	0.20		1	11/20/17 13:36	11/20/17 20:58	15972-80-8	
Aldrin	<0.025	ug/L	0.025		1	11/20/17 13:36	11/20/17 20:58	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/20/17 13:36	11/20/17 20:58	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/20/17 13:36	11/20/17 20:58	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/20/17 13:36	11/20/17 20:58	80-57-1	
Endrin	<0.010	ug/L	0.010		1	11/20/17 13:36	11/20/17 20:58	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/20/17 13:36	11/20/17 20:58	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/20/17 13:36	11/20/17 20:58	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 20:58	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 20:58	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 20:58	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/20/17 13:36	11/20/17 20:58		
Toxaphene	<1.0	ug/L	1.0		1	11/20/17 13:36	11/20/17 20:58	8001-35-2	
<i>Surrogates</i>									
Tetrachloro-m-xylene (S)	107	%	30-150		1	11/20/17 13:36	11/20/17 20:58	877-09-8	
Decachlorobiphenyl (S)	44	%	30-150		1	11/20/17 13:36	11/20/17 20:58	2051-24-3	
515.3 Chlorinated Herbicides Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/17/17 14:00	11/22/17 22:09	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/17/17 14:00	11/22/17 22:09	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/17/17 14:00	11/22/17 22:09	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/17/17 14:00	11/22/17 22:09	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/17/17 14:00	11/22/17 22:09	87-88-5	
Picloram	<0.10	ug/L	0.10		1	11/17/17 14:00	11/22/17 22:09	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/17/17 14:00	11/22/17 22:09	93-72-1	
<i>Surrogates</i>									
2,4-DCAA (S)	96	%	70-130		1	11/17/17 14:00	11/22/17 22:09	19719-28-9	
531.1 HPLC Carbamates Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/22/17 22:52	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/22/17 22:52	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/22/17 22:52	1646-87-3	L1
Carbofuran	<0.90	ug/L	0.90		1		11/22/17 22:52	1563-86-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/22/17 22:52	18655-82-6	L1
Methomyl	<1.0	ug/L	1.0		1		11/22/17 22:52	16752-77-5	
Oxamyl	<1.0	ug/L	1.0		1		11/22/17 22:52	23135-22-0	
Carbaryl	<1.0	ug/L	1.0		1		11/22/17 22:52	63-25-2	
547 HPLC Glyphosate Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0		700		11/22/17 23:03		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 575 Broad Hollow Road
 Melville, NY 11747
 (631)694-3040

ANALYTICAL RESULTS

Project: 334784-01
 Pace Project No.: 7035821

Sample: 334784-01 Lab ID: 7035821001 Collected: 11/14/17 12:30 Received: 11/15/17 14:48 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat		Analytical Method: EPA 549.2 Preparation Method: EPA 549.2							
Diquat	<0.40	ug/L	0.40	20	1	11/20/17 21:02	11/21/17 02:22	85-00-7	
525.2 Base Neutral Extractable		Analytical Method: EPA 525.2 Preparation Method: EPA 525.2							
Atrazine	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 01:18	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/17/17 18:11	11/28/17 01:18	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 01:18	23184-68-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/17/17 18:11	11/28/17 01:18	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/17/17 18:11	11/28/17 01:18	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 01:18	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/17/17 18:11	11/28/17 01:18	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 01:18	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/17/17 18:11	11/28/17 01:18	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	103	%	70-130		1	11/17/17 18:11	11/28/17 01:18	81209	
Perylene-d12 (S)	97	%	70-130		1	11/17/17 18:11	11/28/17 01:18	1520963	
Triphenylphosphate (S)	106	%	70-130		1	11/17/17 18:11	11/28/17 01:18	115-88-8	
Pyrene-d10 (S)	109	%	70-130		1	11/17/17 18:11	11/28/17 01:18		

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 47317	Analysis Method: EPA 531.1
QC Batch Method: EPA 531.1	Analysis Description: 531.1 HPLC Carbamate
Associated Lab Samples: 7035821001	

METHOD BLANK: 220707 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/22/17 14:32	
Aldicarb	ug/L	<0.50	0.50	11/22/17 14:32	
Aldicarb sulfone	ug/L	<0.80	0.80	11/22/17 14:32	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/22/17 14:32	
Carbaryl	ug/L	<1.0	1.0	11/22/17 14:32	
Carbofuran	ug/L	<0.90	0.90	11/22/17 14:32	
Methomyl	ug/L	<1.0	1.0	11/22/17 14:32	
Oxamyl	ug/L	<1.0	1.0	11/22/17 14:32	

LABORATORY CONTROL SAMPLE: 220708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.8	123	80-120	L1
Aldicarb	ug/L	3.8	3.6	97	80-120	
Aldicarb sulfone	ug/L	3.8	4.1	110	80-120	
Aldicarb sulfoxide	ug/L	3.8	4.8	127	80-120	L1
Carbaryl	ug/L	3.8	3.9	104	80-120	
Carbofuran	ug/L	3.8	4.5	119	80-120	
Methomyl	ug/L	3.8	4.2	112	80-120	
Oxamyl	ug/L	3.8	4.4	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 220709 220710

Parameter	Units	220709		220710		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7036217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.4	4.9	118	131	65-135	10 20
Aldicarb	ug/L	<0.50	3.8	3.8	3.7	3.7	99	100	65-135	1 20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	4.2	4.3	113	115	65-135	2 20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	4.4	4.8	117	127	65-135	8 20
Carbaryl	ug/L	<1.0	3.8	3.8	3.8	4.0	100	106	65-135	8 20
Carbofuran	ug/L	<0.90	3.8	3.8	4.4	5.2	117	138	65-135	17 20 M1
Methomyl	ug/L	<1.0	3.8	3.8	4.3	4.7	115	125	65-135	8 20
Oxamyl	ug/L	<1.0	3.8	3.8	4.3	5.0	115	133	65-135	14 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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 Melville, NY 11747
 (631)694-3040

QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 407599 Analysis Method: EPA 647
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035821001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:08	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1	30 H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Glyphosate	ug/L	<6.0	50	50	52.8	51.4	105	103	80-120	2	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 46975 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035821001

METHOD BLANK: 219306 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/17/17 17:18	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/17/17 17:18	

LABORATORY CONTROL SAMPLE: 219307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.065	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.060	84	70-130	

LABORATORY CONTROL SAMPLE: 219308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	<0.010	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	<0.010	73	70-130	

LABORATORY CONTROL SAMPLE: 219309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.062	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.064	90	70-130	

MATRIX SPIKE SAMPLE: 219310

Parameter	Units	7035537001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.059	82	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.057	79	65-135	

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 47107 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035821001

METHOD BLANK: 219987 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/20/17 18:25	
Aldrin	ug/L	<0.025	0.025	11/20/17 18:25	
Chlordane (Technical)	ug/L	<0.20	0.20	11/20/17 18:25	
Dieldrin	ug/L	<0.050	0.050	11/20/17 18:25	
Endrin	ug/L	<0.010	0.010	11/20/17 18:25	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/20/17 18:25	
Heptachlor	ug/L	<0.025	0.025	11/20/17 18:25	
Heptachlor epoxide	ug/L	<0.020	0.020	11/20/17 18:25	
Hexachlorobenzene	ug/L	<0.10	0.10	11/20/17 18:25	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/20/17 18:25	
Methoxychlor	ug/L	<0.10	0.10	11/20/17 18:25	
PCB Screen	ug/L	<0.40	0.40	11/20/17 18:25	
Toxaphene	ug/L	<1.0	1.0	11/20/17 18:25	
Decachlorobiphenyl (S)	%	79	30-150	11/20/17 18:25	
Tetrachloro-m-xylene (S)	%	110	30-150	11/20/17 18:25	

LABORATORY CONTROL SAMPLE: 219988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.40	83	70-130	
Aldrin	ug/L	.048	0.041	87	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	88	70-130	
Endrin	ug/L	.048	0.041	85	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.051	106	70-130	
Heptachlor	ug/L	.048	0.039	82	70-130	
Heptachlor epoxide	ug/L	.048	0.041	86	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	89	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	70	70-130	
Methoxychlor	ug/L	.24	0.19	81	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			84	30-150	
Tetrachloro-m-xylene (S)	%			101	30-150	

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 Melville, NY 11747
 (631)894-3040

QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

MATRIX SPIKE SAMPLE:		219991					
Parameter	Units	7035805001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	<0.20	.95	0.89	94	65-135	
Aldrin	ug/L	<0.025	.095	0.10	107	65-135	
Chlordane (Technical)	ug/L	<0.20		0.70			
Dieldrin	ug/L	<0.050	.095	0.095	99	65-135	
Endrin	ug/L	<0.010	.095	0.094	99	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.11	119	65-135	
Heptachlor	ug/L	<0.025	.095	0.10	107	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.088	92	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	98	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	88	65-135	
Methoxychlor	ug/L	<0.10	.48	0.47	97	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				97	30-160	
Tetrachloro-m-xylene (S)	%				121	30-150	

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 (631)694-3040

QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 47034 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035821001

METHOD BLANK: 219535 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/22/17 11:47	
2,4-D	ug/L	<0.10	0.10	11/22/17 11:47	
Dalapon	ug/L	<0.70	0.70	11/22/17 11:47	
Dicamba	ug/L	<1.0	1.0	11/22/17 11:47	
Dinoseb	ug/L	<0.20	0.20	11/22/17 11:47	
Pentachlorophenol	ug/L	<0.040	0.040	11/22/17 11:47	
Picloram	ug/L	<0.10	0.10	11/22/17 11:47	
2,4-DCAA (S)	%	104	70-130	11/22/17 11:47	

LABORATORY CONTROL SAMPLE: 219536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.22	108	70-130	
2,4-D	ug/L	.6	0.64	106	70-130	
Dalapon	ug/L	2	2.1	104	70-130	
Dicamba	ug/L	.2	<1.0	91	70-130	
Dinoseb	ug/L	.4	0.36	91	70-130	
Pentachlorophenol	ug/L	.2	0.20	99	70-130	
Picloram	ug/L	.2	0.20	102	70-130	
2,4-DCAA (S)	%			115	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219537 219538

Parameter	Units	219537		219538		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7035496003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.20	0.20	98	100	65-135	2 20
2,4-D	ug/L	<0.10	.6	.6	0.60	0.58	99	97	65-135	2 20
Dalapon	ug/L	<0.70	2	2	1.9	2.0	96	98	65-135	2 20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	99	105	65-135	20
Dinoseb	ug/L	<0.20	.4	.4	0.37	0.38	93	96	65-135	3 20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.18	0.18	83	83	65-135	0 20
Picloram	ug/L	<0.10	.2	.2	0.16	0.16	78	80	65-135	1 20
2,4-DCAA (S)	%						97	97	70-130	20

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 46977 Analysis Method: EPA 525.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035821001

METHOD BLANK: 219311 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/27/17 19:54	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/27/17 19:54	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/27/17 19:54	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/27/17 19:54	
Butachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Metolachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Metribuzin	ug/L	<0.50	0.50	11/27/17 19:54	
Propachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Simazine	ug/L	<0.070	0.070	11/27/17 19:54	
1,3-Dimethyl-2-nitrobenzene(S)	%	104	70-130	11/27/17 19:54	
Perylene-d12 (S)	%	93	70-130	11/27/17 19:54	
Pyrene-d10 (S)	%	102	70-130	11/27/17 19:54	
Triphenylphosphate (S)	%	100	70-130	11/27/17 19:54	

LABORATORY CONTROL SAMPLE: 219312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	2.1	104	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	93	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.1	106	70-130	
Butachlor	ug/L	2	1.7	87	70-130	
Metolachlor	ug/L	2	1.8	89	70-130	
Metribuzin	ug/L	2	2.0	98	70-130	
Propachlor	ug/L	2	2.1	107	70-130	
Simazine	ug/L	2	2.1	105	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			95	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			107	70-130	
Triphenylphosphate (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219434 219435

Parameter	Units	219434		219435		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7035704001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
Atrazine	ug/L	<0.10	2	2	2.2	1.8	109	90	70-130	19	30
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	2.0	103	102	70-130	1	30
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	1.9	1.7	95	85	70-130	11	30

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		219434		219435									
Parameter	Units	7035704001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.4	2.2	114	107	70-130	7	30		
Butachlor	ug/L	<0.10	2	2	2.1	1.7	103	84	70-130	21	30		
Metolachlor	ug/L	<0.10	2	2	1.9	1.9	93	93	70-130	0	30		
Metribuzin	ug/L	<0.50	2	2	2.1	2.1	103	108	70-130	2	30		
Propachlor	ug/L	<0.10	2	2	1.9	1.9	97	96	70-130	1	30		
Simazine	ug/L	<0.070	2	2	1.8	1.8	88	89	70-130	1	30		
1,3-Dimethyl-2-nitrobenzene(S)	%						95	95	70-130		30		
Perylene-d12 (S)	%						102	104	70-130		30		
Pyrene-d10 (S)	%						109	117	70-130		30		
Triphenylphosphate (S)	%						106	108	70-130		30		

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035821

QC Batch: 408913 Analysis Method: EPA 549.2
 QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
 Associated Lab Samples: 7035821001

METHOD BLANK: 2221786 Matrix: Water
 Associated Lab Samples: 7035821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/21/17 00:51	

LABORATORY CONTROL SAMPLE: 2221787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.8	81	70-130	

LABORATORY CONTROL SAMPLE: 2221788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	78	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221789 2221790

Parameter	Units	50184178002		2221789		2221790		% Rec Limits	Max RPD	Qual		
		MS Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				MS % Rec	MSD % Rec
Diquat	ug/L	ND	2	1.7	2	1.7	1.7	85	85	70-130	0	30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221791 2221792

Parameter	Units	7035704001		2221791		2221792		% Rec Limits	Max RPD	Qual		
		MS Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				MS % Rec	MSD % Rec
Diquat	ug/L	<0.40	2	1.8	2	1.9	1.9	88	94	70-130	8	30

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QUALIFIERS

Project: 334784-01
Pace Project No.: 7036821

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Melville, NY 11747
(831)894-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334784-01
Pace Project No.: 7035821

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035821001	334784-01	EPA 504.1	48975	EPA 504.1	47037
7035821001	334784-01	EPA 505	47107	EPA 505	47189
7035821001	334784-01	EPA 515.3	47034	EPA 515.3	47218
7035821001	334784-01	EPA 531.1	47317		
7035821001	334784-01	EPA 547	407599		
7035821001	334784-01	EPA 549.2	408913	EPA 549.2	407042
7035821001	334784-01	EPA 525.2	48977	EPA 525.2	47057

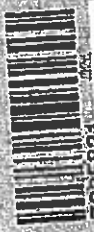
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CHAIN OF CUSTODY

Physical Services
 Bloomingburg, NY 12721
 557 Fax (845)733-1944

WO#: 7035821



Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) 4.5
 Sample rec'd on ice? SR
 Sample set up in 6 hr? SR
 Properly preserved? SR
 Within holding times? SR
 Reviewed by SR

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Lab Code	Analysts Required
3518401	11/14/17	12:30				L-3	2 40ml G	thio		EPA 504
							2 40ml G	thio		EPA 505
							1 250ml G	thio		EPA 515.3
							2 1L G	sulfite		EPA 525.2
							2 40ml G	thio		EPA 531.1
							3 40ml G	thio		EPA 547 Glyphosate
							1 250ml G	thio		EPA 548 Endothall
							1 1L Poly	none		EPA 549 Diquat
							1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
Received By:	<u>SR</u>	<u>SR</u>	11/14/17	1:35
Received By:	<u>Shawn Base</u>	<u>SR</u>	11/17/17	10:35
Received By:	_____	_____	_____	_____
Received By:	_____	_____	_____	_____



Sample Condition Upon Receipt

Client Name: _____

Proj: **WO#: 7035821**

PM: JM2 Due Date: 12/01/17
CLIENT: OOL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1Z NFO 744 03 0002 618

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on Ice, cooling process has begun

Cooler Temperature (°C): 2.8

Cooler Temperature Corrected (°C): 2.9

Date/Time 5035A Kits placed in freezer _____

Temp should be above freezing to 6.0°C

Date and Initials of person examining contents: SB 11/15/17

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD):	<input type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix <u>SL/W/T OIL</u>		
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>H1601354</u>		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine suspect # _____		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Field Data Required? Y / N

Client Notification/ Resolution: _____

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

James Murphy
PASI Long Island
2190 Technology Drive
Schenectady NY 12308

Report Information:

Pace Project #: 10411389
Sample Receipt Date: 11/16/2017
Client Project #: 7035821
Client Sub PO #: L9101
State Cert #: 11647

**REPORT OF
LABORATORY
ANALYSIS FOR
2,3,7,8-TCDD**

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

This report has been reviewed by:

November 28, 2017

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:

November 28, 2017



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Page 21 of 28



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	CERT0092
Alaska	MN00064	Nebraska	NE-OS-18-06
Alaska	UST-078	Nevada	MN00064
Arizona	AZ0014	New Jersey (NE	MN002
Arkansas	88-0680	New York (NEL	11647
CNMI Salpan	MP0003	New hampshire	2081
California	MN00064	North Carolina	27700
Colorado	MN00064	North Carolina	530
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-L	Ohio	41244
Florida (NELAP	E87605	Ohio VAP	CL101
Georgia (EDP)	959	Oklahoma	9507
Guam EPA	959	Oregon (ELAP)	MN200001
Hawaii	MN00064	Oregon (OREL	MN300001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200011	Puerto Rico	MN00064
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Tennessee	TN02818
Kansas	E-10167	Texas	T104704192
Kentucky	90062	Utah (NELAP)	MN00064
Louisiana	03086	Virginia	460163
Louisiana	MN00064	Washington	C486
Maine	MN00064	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-L

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

10411389

Chain of Custody



Workorder: 7035821 Workorder Name: 334784-01 Owner Received Date: 11/15/2017 Results Requested By: 12/1/2017

James Murphy
Pace Analytical New York
2190 Technology Drive
Schenectady, NY 12308
Phone (518)346-4592

Pace Analytical Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700


Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	James Murphy	11/17 18:00	[Signature]	11/14/2017 12:30	Drinking	2		
2								
3								
4								
5								

LAB USE ONLY
001

Cooler Temperature on Receipt 3.1 2.8 °C Custody Seal Y or N (N) Received on Ice (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 30Aug2017 Page 1 of 2
	Document No.: F-MN-L-213-rev.21	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pisci - NY Project #: WO#: 10411389

Courier: Fed Ex UPS USPS Client
 Commercial Pace SpeeDee Other: _____

Tracking Number: 4158-3814-1734, 4158-3814-1745

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer 151401163 GB7A9155100842 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 3.5, 3.2 Cooler Temp Corrected (°C): 3.1, 2.8 Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C Correction Factor: 0.4 Date and Initials of Person Examining Contents: 11/16/17

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Collform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased):	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Field Data Required? Yes No

Project Manager Review: Nathan Berman Date: 11/16/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Pace Analytical Services, LLC.
1700 Elm Street - Suite 200
Minneapolis, MN, 55414

Tel: 612-607-1700
Fax: 612-607-6444

Drinking Water Analysis Results
2,3,7,8-TCDD -- USEPA Method 1613B

Sample ID.....334784-01
Client..... PASI Long Island
Lab Sample ID..... 7035821001

Date Collected.....11/14/2017
Date Received.....11/16/2017
Date Extracted.....11/17/2017

	Sample 334784-01	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND	--	--
LOQ	5.0 pg/L	5.0 pg/L	--	--
2,3,7,8-TCDD Recovery	--	--	117%	116%
Spike Recovery Limit	--	--	73-146%	73-146%
RPD			0.4%	
IS Recovery	35%	41%	51%	47%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	60%	48%	58%	61%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	F171121B_11	F171121A_15	F171121A_07	F171121A_08
Analysis Date	11/22/2017	11/21/2017	11/21/2017	11/21/2017
Analysis Time	03:42	18:09	12:35	13:29
Analyst	ZMS	ZMS	ZMS	ZMS
Volume	0.971L	1.023L	1.056L	1.055L
Dilution	NA	NA	NA	NA
ICAL Date	08/12/2017	08/12/2017	08/12/2017	08/12/2017
CCAL Filename	F171121B_02	F171121A_06	F171121A_06	F171121A_06

- ! = Outside the Control Limits
- ND = Not Detected
- LOQ = Limit of Quantitation
- Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A
- RPD = Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard [2,3,7,8-TCDD-¹²C₁₂]
- CS = Cleanup Standard [2,3,7,8-TCDD-³⁷Cl₄]

Analyst: Zakriya Salah

Project No.....10411389
Page 26 of 26

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145698-1
Client Project/Site: 334784-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 1:07:02 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

**Ask
The
Expert**

Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
"	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145698-1	334784-01	Water	11/14/17 12:30	11/16/17 09:15



Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

Job ID: 680-145698-1

Laboratory: TestAmerica Savannah

Narrative

**Job Narrative
680-145698-1**

Comments

No additional comments.

Receipt

The samples were received on 11/16/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS Semi VOA

Method(s) 548.1, 548.1 LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-503274 and analytical batch 680-503421 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 548.1, 548.1 LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503421 recovered outside control limits for the following analytes: Endothall.

Method(s) 548.1, 548.1 LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-503274 and analytical batch 680-503892 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 548.1, 548.1 LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503829 recovered outside control limits for the following analytes: Endothall.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

Client Sample ID: 334784-01

Lab Sample ID: 680-145698-1

Date Collected: 11/14/17 12:30

Matrix: Water

Date Received: 11/16/17 09:15

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND	*	10.0	6.30	ug/L		11/20/17 07:45	11/20/17 19:09	1

5

TestAmerica Savannah

QC Sample Results

Client: Pace Analytical Services, LLC
 Project/Site: 334784-01

TestAmerica Job ID: 680-145898-1

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503274/18-A
 Matrix: Water
 Analysis Batch: 503421

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 503274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0	6.30	ug/L		11/20/17 08:41	11/20/17 17:43	1

Lab Sample ID: LCS 680-503274/19-A
 Matrix: Water
 Analysis Batch: 503421

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 503274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	25.0	20.73		ug/L		83	46 - 125

Lab Sample ID: LCSD 680-503274/20-A
 Matrix: Water
 Analysis Batch: 503421

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 503274

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endothall	25.0	31.09	*	ug/L		124	46 - 125	40	30

Lab Sample ID: LLCS 680-503274/21-A
 Matrix: Water
 Analysis Batch: 503421

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 503274

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	10.0	10.55		ug/L		105	50 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334784-01

TestAmerica Job ID: 880-145698-1

GC/MS Semi VOA

Prep Batch: 503274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-145698-1	334784-01	Total/NA	Water	548.1	
MB 880-503274/18-A	Method Blank	Total/NA	Water	548.1	
LCS 880-503274/19-A	Lab Control Sample	Total/NA	Water	548.1	
LCSD 880-503274/20-A	Lab Control Sample Dup	Total/NA	Water	548.1	
LLCS 880-503274/21-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-145698-1	334784-01	Total/NA	Water	548.1	503274
MB 880-503274/18-A	Method Blank	Total/NA	Water	548.1	503274
LCS 880-503274/19-A	Lab Control Sample	Total/NA	Water	548.1	503274
LCSD 880-503274/20-A	Lab Control Sample Dup	Total/NA	Water	548.1	503274
LLCS 880-503274/21-A	Lab Control Sample	Total/NA	Water	548.1	503274

Lab Chronicle

Client: Pace Analytical Services, LLC
 Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

Client Sample ID: 334784-01

Lab Sample ID: 680-145698-1

Date Collected: 11/14/17 12:30

Matrix: Water

Date Received: 11/16/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503274	11/20/17 07:46	MAV	TAL SAV
Total/NA	Analysis	548.1		1			503421	11/20/17 19:09	KNW	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 6102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISOMEC 17025		0463.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-08-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	08-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-899-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN865	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	08-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	88-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00308	12-01-18
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	480152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	898020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

TestAmerica Savannah

Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334784-01

TestAmerica Job ID: 680-145698-1

Method	Method Description	Protocol	Laboratory
648.1	Endothall (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)364-7858



Chain of Custody



Workorder: 7035821 Subcontract To: 334784-01

Results Requested By: 12/1/2017

James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email: james.murphy@pacedata.com

TA-GA

PO

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requester	Requester Analysis	LAB USE ONLY
1	334784-01	11/14/2017 12:30	7035821001	Dunking		348-EAD011 HALL		
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>James</i>	11/15/17 18:00	<i>NY</i>	11/16/17 9:15	NY Samples
2					
3					

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N



Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 880-145698-1

Login Number: 145698

List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $< 8\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

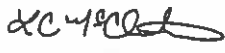
Project
Date Received 11/14/2017
Date Complete 12/11/2017
Date Printed 12/11/2017

Sample Number 334783-01
Federal ID
Description
Location L-3
Sample Point

Date Sampled 11/14/17 12:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached						OL	
Radiologicals								
Gross Alpha	see attached			15			PG	
Gross Beta	see attached						PG	
Radium 226	see attached			5			PG	
Radium 228	see attached			5			PG	
Uranium, U	see attached	ug/L		30			PG	
RADON								
Radon	see attached						PG	

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217112622

Client Name: OCL Analytical Services


Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334783-01	0.002	3	NSD	NSD	1.07	<1.07	<1.07	—

L-3

*NADNSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepped by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: _____ ; Analyzed By:  Date: 11/21/2017

Marik Peysakhov



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-6600

November 21, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334793
Pace Project No.: 30236080

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334793
Pace Project No.: 30236080

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41690

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014672015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Perml #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 16601
(724)850-6800

SAMPLE SUMMARY

Project: 334793
Pace Project No.: 30236080

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236080001	334793-01	Drinking Water	11/14/17 11:30	11/15/17 09:45

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Pace Analytical Services, LLC
1638 Roseylown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334793
Pace Project No.: 30236080

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30236080001	334793-01	SM7500RnB-07	NJV	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30236080

Method: SM7600RnB-07
Description: 7600RnB Radon
Client: OCL Analytical Services
Date: November 21, 2017

General Information:

1 sample was analyzed for SM7600RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-6800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334793
Pace Project No.: 30236080

Sample: 334793-01 Lab ID: 30236080001 Collected: 11/14/17 11:30 Received: 11/15/17 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	14.9 ± 30.8 (52.6) C:NA T:NA	pCi/L	11/17/17 04:02	10043-92-2	

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-6600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236080

QC Batch: 279344	Analysis Method: SM7500RnB-07
QC Batch Method: SM7500RnB-07	Analysis Description: 7500Rn B Radon
Associated Lab Samples: 30236080001	

METHOD BLANK: 1371785 Matrix: Water
 Associated Lab Samples: 30236080001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	1.5 ± 18.5 (32.3) C:NA T:NA	pCi/L	11/16/17 19:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 334793
Pace Project No.: 30238080

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

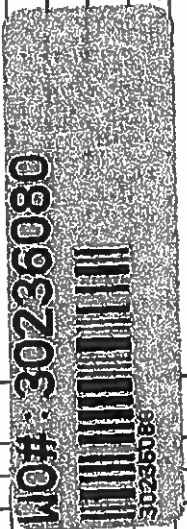
Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) 5.7
 Sample rec'd on ice? Yes
 Sample set up in 6 hr? Yes
 Properly preserved? Yes
 Within holding times? Yes
 Reviewed by [Signature]

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date Time	Matrix	Sample Description/Location	Containers Nohype	Preser- valve	Analysis Required
23479301	11/14 11:22		S-3	1 LP	HNO3	Trace Metals
				1 LP	HNO3	Trace Metals
				1 LP	HNO3	Trace Metals
				1 LP	HNO3	Trace Metals
				1 LP	HNO3	Trace Metals
				2 40mm	none	Radon in Water
				1 LP	none	Asbestos



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By: <u>[Signature]</u>	print sign	date: 11/14/17	date: 11/14/17	time: 1:30	time: 5:00
Relinquished By: <u>[Signature]</u>	print sign	date: 11/14/17	date: 11/14/17	time: 1:30	time: 5:45
Relinquished By: _____	print sign	date: _____	date: _____	time: _____	time: _____
Relinquished By: _____	print sign	date: _____	date: _____	time: _____	time: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCI

Project # 30236080

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z2747180193093214

Label	<u>ZH</u>
LIMS Login	<u>DD</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: ZH 11/15/17

Comments:

	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:		/		3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:		/		
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/Time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>11/15/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS, The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseylown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

December 10, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334793
Pace Project No.: 30236487

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

CERTIFICATIONS

Project: 334793
Pace Project No.: 30236487

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41580
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0894
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4088
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00262
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9984C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)950-5600

SAMPLE SUMMARY

Project: 334793
Pace Project No.: 30236487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236487001	334793-01	Drinking Water	11/14/17 11:30	11/17/17 09:30

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)860-5600

SAMPLE ANALYTE COUNT

Project: 334793
Pace Project No.: 30236487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30236487001	334793-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30235487

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30235487

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30238487

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30236487

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1838 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236487

Sample: 334793-01 Lab ID: 30236487001 Collected: 11/14/17 11:30 Received: 11/17/17 09:30 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.330 ± 0.508 (1.08) C:NA T:NA	pCi/L	11/28/17 18:43	12587-46-1	
Gross Beta	EPA 900.0	0.984 ± 0.606 (1.19) C:NA T:NA	pCi/L	11/28/17 18:43	12587-47-2	
Radium-226	EPA 903.1	0.364 ± 0.291 (0.164) C:NA T:88%	pCi/L	12/07/17 13:44	13982-63-3	
Radium-228	EPA 904.0	0.216 ± 0.462 (1.00) C:71% T:69%	pCi/L	12/01/17 15:01	15262-20-1	
Total Uranium	ASTM D6174-97	0.103 ± 0.006 (0.193) C:NA T:NA	ug/L	12/10/17 13:02	7440-81-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-6600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236487

QC Batch: 280048	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30236487001	

METHOD BLANK: 1375541	Matrix: Water
Associated Lab Samples: 30236487001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.212 ± 0.308 (0.767) C:75% T:84%	pCi/L	12/01/17 15:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334793
Pace Project No.: 30236487

QC Batch: 280247 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30236487001

METHOD BLANK: 1378369 Matrix: Water
Associated Lab Samples: 30236487001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.583 ± 0.434 (0.571) C:NA T:92%	pCi/L	12/07/17 12:50	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334793
Pace Project No.: 30236487

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

Report to: KCE
 Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

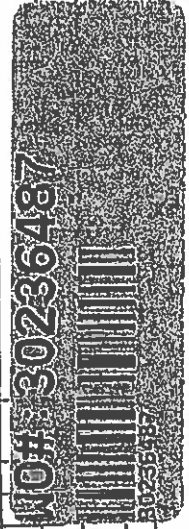
Bill to: KCE

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) _____
 Sample rec'd on ice? Yes
 Sample set up in 8 hr? Yes
 Properly preserved? Yes
 Within holding times? Yes
 Reviewed by: _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

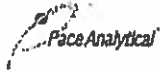
OCL Number	Collection Date	Time	Comp	grab	Matrix	Sample Description/Location	Containers Notype	Preservative	El. Res. Id.	Analysis Required
23479301	11/14	11:20				S-3	1 LP	HNO3		Gross Alpha
							1 LP	HNO3		Gross Beta
							1 LP	HNO3		Radium 226
							1 LP	HNO3		Radium 228
							1 LP	HNO3		Uranium
							2 40mm	none		Radon in water
							1 LP	none		ASBESTOS



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? No

Received By:	print	sign	date:	time:
_____	_____	_____	11/14/17	12:30
Relinquished By:	print	sign	date:	time:
Andrew Melison	_____	_____	11/15/17	9:40
Relinquished By:	print	sign	date:	time:
_____	_____	_____	_____	_____
Relinquished By:	print	sign	date:	time:
_____	_____	_____	_____	_____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL Ana.

Project # 30236487

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label <u>AML</u>
LIMS Login <u>AML</u>

Tracking #: 1Z MTO 7K4 03 1677 9042

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp. _____ °C

Temp should be above freezing to 8°C

Date and Initial of person examining contents: AML 11-17-17

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation.	X			16. <u>PHLZ</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>AML</u> Date/time of preservation _____ Lot # of added preservative _____
Headspace in VOA Vials (>8mm):			X	17.
Trip Blank Present:		X		18.
Trip Blank Custody Seals Present		X		
Rad Aqueous Samples Screened > 0.5 mrem/hr	X			Initial when completed: <u>AML</u> Date: <u>11-17-17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: AML 11-17-17 Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/2/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334404-01
Federal ID
Description
Location W-1
Sample Point

Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
675 Broad Hollow Road
Melville, NY 11747
(831)894-3040

November 29, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334404-01
Pace Project No.: 7034728

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

547,549 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334404-01
Pace Project No.: 7034728

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification #: 346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 238
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 607
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 480165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 8062C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY156
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)894-3040

SAMPLE SUMMARY

Project: 334404-01
Pace Project No.: 7034728

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7034728001	334404-01	Drinking Water	11/02/17 13:30	11/03/17 10:25

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)884-3040

SAMPLE ANALYTE COUNT

Project: 334404-01
Pace Project No.: 7034728

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7034728001	334404-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV
		EPA 548.1	JDT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334404-01
 Pace Project No.: 7034728

Sample: 334404-01 Lab ID: 7034728001 Collected: 11/02/17 13:30 Received: 11/03/17 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/10/17 17:15	11/10/17 22:39	98-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/10/17 17:15	11/10/17 22:39	106-93-4	
505 GCS Pesticides/PCBs									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Atochlor	<0.20	ug/L	0.20		1	11/08/17 15:27	11/08/17 22:14	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/08/17 15:27	11/08/17 22:14	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/08/17 15:27	11/08/17 22:14	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/08/17 15:27	11/08/17 22:14	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/08/17 15:27	11/08/17 22:14	80-57-1	
Endrin	<0.010	ug/L	0.010		1	11/08/17 15:27	11/08/17 22:14	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/08/17 15:27	11/08/17 22:14	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/08/17 15:27	11/08/17 22:14	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/08/17 15:27	11/08/17 22:14	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/08/17 15:27	11/08/17 22:14	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/08/17 15:27	11/08/17 22:14	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/08/17 15:27	11/08/17 22:14		
Toxaphene	<1.0	ug/L	1.0		1	11/08/17 15:27	11/08/17 22:14	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	96	%	30-150		1	11/08/17 15:27	11/08/17 22:14	877-09-8	
Decachlorobiphenyl (S)	108	%	30-150		1	11/08/17 15:27	11/08/17 22:14	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/10/17 11:00	11/11/17 21:25	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/10/17 11:00	11/11/17 21:25	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/10/17 11:00	11/11/17 21:25	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/10/17 11:00	11/11/17 21:25	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/10/17 11:00	11/11/17 21:25	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/10/17 11:00	11/11/17 21:25	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/10/17 11:00	11/11/17 21:25	93-72-1	
Surrogates									
2,4-DCAA (S)	95	%	70-130		1	11/10/17 11:00	11/11/17 21:25	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/18/17 00:13	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/18/17 00:13	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/18/17 00:13	1646-87-3	
Carbofuran	<0.90	ug/L	0.90		1		11/18/17 00:13	1583-86-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/18/17 00:13	16655-82-6	
Methomyl	<1.0	ug/L	1.0		1		11/18/17 00:13	16752-77-5	
Oxamyl	<1.0	ug/L	1.0		1		11/18/17 00:13	23135-22-0	
Carbaryl	<1.0	ug/L	1.0		1		11/18/17 00:13	63-25-2	
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0	700	1		11/22/17 18:39		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334404-01
 Pace Project No.: 7034728

Sample: 334404-01 Lab ID: 7034728001 Collected: 11/02/17 13:30 Received: 11/03/17 10:25 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat Analytical Method: EPA 549.2 Preparation Method: EPA 549.2									
Diquat	<0.40	ug/L	0.40	20	1	11/08/17 22:32	11/10/17 08:45	85-00-7	
525.2 Base Neutral Extractable Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Alrazine	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 17:28	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/13/17 14:02	11/13/17 17:28	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 17:28	23184-88-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 17:28	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 17:28	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 17:28	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/13/17 14:02	11/13/17 17:28	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 17:28	1918-16-7	
Silmazine	<0.070	ug/L	0.070		1	11/13/17 14:02	11/13/17 17:28	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	98	%	70-130		1	11/13/17 14:02	11/13/17 17:28	81209	
Perylene-d12 (S)	93	%	70-130		1	11/13/17 14:02	11/13/17 17:28	1520963	
Triphenylphosphate (S)	80	%	70-130		1	11/13/17 14:02	11/13/17 17:28	115-86-8	
Pyrene-d10 (S)	97	%	70-130		1	11/13/17 14:02	11/13/17 17:28		
548.1 GCS Endothall Analytical Method: EPA 548.1 Preparation Method: EPA 548.1									
Endothall	<9.0	ug/L	9.0	100	1	11/09/17 11:00	11/14/17 14:40		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 46995 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7034728001

METHOD BLANK: 219399 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/17/17 17:11	
Aldicarb	ug/L	<0.50	0.50	11/17/17 17:11	
Aldicarb sulfone	ug/L	<0.80	0.80	11/17/17 17:11	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/17/17 17:11	
Carbaryl	ug/L	<1.0	1.0	11/17/17 17:11	
Carbofuran	ug/L	<0.90	0.90	11/17/17 17:11	
Methomyl	ug/L	<1.0	1.0	11/17/17 17:11	
Oxamyl	ug/L	<1.0	1.0	11/17/17 17:11	

LABORATORY CONTROL SAMPLE: 219400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.3	116	80-120	
Aldicarb	ug/L	3.8	3.9	103	80-120	
Aldicarb sulfone	ug/L	3.8	4.0	107	80-120	
Aldicarb sulfoxide	ug/L	3.8	3.9	104	80-120	
Carbaryl	ug/L	3.8	3.9	104	80-120	
Carbofuran	ug/L	3.8	4.5	119	80-120	
Methomyl	ug/L	3.8	4.2	111	80-120	
Oxamyl	ug/L	3.8	3.9	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219401 219402

Parameter	Units	7034800001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result					
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.3	3.6	114	96	65-135	17	20
Aldicarb	ug/L	<0.50	3.8	3.8	3.7	3.8	99	102	65-135	2	20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	3.9	3.7	104	98	65-135	6	20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	3.9	3.8	103	102	65-135	1	20
Carbaryl	ug/L	<1.0	3.8	3.8	3.8	3.4	97	90	65-135	7	20
Carbofuran	ug/L	<0.90	3.8	3.8	3.6	4.2	95	111	65-135	15	20
Methomyl	ug/L	<1.0	3.8	3.8	3.8	3.8	103	101	65-135	1	20
Oxamyl	ug/L	<1.0	3.8	3.8	3.7	3.7	100	100	65-135	0	20

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7034728001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225138

Parameter	Units	7034728001		2225138		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Glyphosate	ug/L	<6.0	50	53.8	54.3	108	109	80-120	1	30 H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001		2225138		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Glyphosate	ug/L	<6.0	50	52.8	51.4	105	103	80-120	2	30

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QUALITY CONTROL DATA

Project: 334404-01
Pace Project No.: 7034728

QC Batch: 46089 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
Associated Lab Samples: 7034728001

METHOD BLANK: 215660 Matrix: Water
Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/10/17 21:02	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/10/17 21:02	

LABORATORY CONTROL SAMPLE: 215661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.067	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.069	97	70-130	

LABORATORY CONTROL SAMPLE: 215662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.065	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.064	90	70-130	

LABORATORY CONTROL SAMPLE: 215843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	0.010	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	<0.010	93	70-130	

MATRIX SPIKE SAMPLE: 215690

Parameter	Units	7035322002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.069	96	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.074	102	65-135	

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 45383 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7034728001

METHOD BLANK: 212601 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/08/17 18:55	
Aldrin	ug/L	<0.025	0.025	11/08/17 18:55	
Chlordane (Technical)	ug/L	<0.20	0.20	11/08/17 18:55	
Dieldrin	ug/L	<0.050	0.050	11/08/17 18:55	
Endrin	ug/L	<0.010	0.010	11/08/17 18:55	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/08/17 18:55	
Heptachlor	ug/L	<0.025	0.025	11/08/17 18:55	
Heptachlor epoxide	ug/L	<0.020	0.020	11/08/17 18:55	
Hexachlorobenzene	ug/L	<0.10	0.10	11/08/17 18:55	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/08/17 18:55	
Methoxychlor	ug/L	<0.10	0.10	11/08/17 18:55	
PCB Screen	ug/L	<0.40	0.40	11/08/17 18:55	
Toxaphene	ug/L	<1.0	1.0	11/08/17 18:55	
Decachlorobiphenyl (S)	%	94	30-150	11/08/17 18:55	
Tetrachloro-m-xylene (S)	%	89	30-150	11/08/17 18:55	

LABORATORY CONTROL SAMPLE: 212602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.40	84	70-130	
Aldrin	ug/L	.048	0.038	80	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	79	70-130	
Endrin	ug/L	.048	0.041	85	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.048	101	70-130	
Heptachlor	ug/L	.048	0.043	91	70-130	
Heptachlor epoxide	ug/L	.048	0.037	79	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	81	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	80	70-130	
Methoxychlor	ug/L	.24	0.20	83	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			91	30-160	
Tetrachloro-m-xylene (S)	%			75	30-150	

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 48085 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7034728001

METHOD BLANK: 215651 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/11/17 16:00	
2,4-D	ug/L	<0.10	0.10	11/11/17 16:00	
Dalapon	ug/L	<0.70	0.70	11/11/17 16:00	
Dicamba	ug/L	<1.0	1.0	11/11/17 16:00	
Dinoseb	ug/L	<0.20	0.20	11/11/17 16:00	
Pentachlorophenol	ug/L	<0.040	0.040	11/11/17 16:00	
Picloram	ug/L	<0.10	0.10	11/11/17 16:00	
2,4-DCAA (S)	%	100	70-130	11/11/17 16:00	

LABORATORY CONTROL SAMPLE: 215652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.18	92	70-130	
2,4-D	ug/L	.6	0.58	96	70-130	
Dalapon	ug/L	2	2.0	100	70-130	
Dicamba	ug/L	.2	<1.0	80	70-130	
Dinoseb	ug/L	.4	0.39	97	70-130	
Pentachlorophenol	ug/L	.2	0.18	89	70-130	
Picloram	ug/L	.2	0.15	76	70-130	
2,4-DCAA (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215653 215854

Parameter	Units	215653		215854		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7034498001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.19	0.17	96	84	65-135	12	20
2,4-D	ug/L	<0.10	.6	.6	0.52	0.57	83	91	65-135	9	20
Dalapon	ug/L	<0.70	2	2	1.9	1.7	96	84	65-135	13	20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	90	74	65-135		20
Dinoseb	ug/L	<0.20	.4	.4	0.38	0.31	95	78	65-135	20	20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.17	0.16	83	74	65-135	10	20
Picloram	ug/L	<0.10	.2	.2	0.15	0.14	76	70	65-135	8	20
2,4-DCAA (S)	%						106	88	70-130		20

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 48078 Analysis Method: EPA 525.2
 QC Batch Method: EPA 625.2 Analysis Description: 625.2 Base Neutral Extractables
 Associated Lab Samples: 7034728001

METHOD BLANK: 215604 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/13/17 14:47	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/13/17 14:47	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/13/17 14:47	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/13/17 14:47	
Butachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metolachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metribuzin	ug/L	<0.50	0.50	11/13/17 14:47	
Propachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Simazine	ug/L	<0.070	0.070	11/13/17 14:47	
1,3-Dimethyl-2-nitrobenzene(S)	%	105	70-130	11/13/17 14:47	
Perylene-d12 (S)	%	103	70-130	11/13/17 14:47	
Pyrene-d10 (S)	%	98	70-130	11/13/17 14:47	
Triphenylphosphate (S)	%	93	70-130	11/13/17 14:47	

LABORATORY CONTROL SAMPLE: 215605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	1.7	87	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	94	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.3	114	70-130	
Butachlor	ug/L	2	1.5	78	70-130	
Metolachlor	ug/L	2	1.9	93	70-130	
Metribuzin	ug/L	2	1.8	89	70-130	
Propachlor	ug/L	2	1.8	92	70-130	
Simazine	ug/L	2	1.9	95	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			105	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			95	70-130	
Triphenylphosphate (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215606 215607

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7034483001 Result	Spike Conc.	Spike Conc.	Conc.							
Atrazine	ug/L	<0.10	2	2	1.7	1.4	84	72	70-130	16	30	
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	1.7	104	85	70-130	20	30	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	2.1	1.8	107	90	70-130	17	30	

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QUALITY CONTROL DATA

Project: 334404-01

Pace Project No.: 7034728

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215606			215607			% Rec	% Rec	% Rec Limits	Max RPD	Qual
		7034483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.6	2.2	123	105	70-130	15	30	
Bulachlor	ug/L	<0.10	2	2	1.7	2.0	87	101	70-130	15	30	
Metolachlor	ug/L	<0.10	2	2	1.8	2.5	92	123	70-130	29	30	
Metribuzin	ug/L	<0.50	2	2	1.8	1.5	88	73	70-130	19	30	
Propachlor	ug/L	<0.10	2	2	1.9	11.1	93	554	70-130	143	30 M1,R1	
Simazine	ug/L	<0.070	2	2	1.9	1.3	96	83	70-130	42	30 M1,R1	
1,3-Dimethyl-2-nitrobenzene(S)	%						97	0	70-130		30 S0	
Perylene-d12 (S)	%						98	97	70-130		30	
Pyrene-d10 (S)	%						97	138	70-130		30 S0	
Triphenylphosphate (S)	%						83	77	70-130		30	

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 404265 Analysis Method: EPA 548.1
 QC Batch Method: EPA 548.1 Analysis Description: 548 GCS Endothall
 Associated Lab Samples: 7034728001

METHOD BLANK: 2206740 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Endothall	ug/L	<9.0	9.0	11/14/17 10:28	

LABORATORY CONTROL SAMPLE: 2206741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	50	56.9	114	80-120	

LABORATORY CONTROL SAMPLE: 2206742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	9	<9.0	78	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207246 2207247

Parameter	Units	35345774001 Result	MS Spike Conc.	MSD Spike Conc.	2207246		2207247		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
Endothall	ug/L	4.3U	50	50	20.8	19.8	42	40	80-120	5	30 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2207248 2207249

Parameter	Units	35348673002 Result	MS Spike Conc.	MSD Spike Conc.	2207248		2207249		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
Endothall	ug/L	4.3U	50	50	62.3	59.7	125	119	80-120	4	30 M1

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QUALITY CONTROL DATA

Project: 334404-01
 Pace Project No.: 7034728

QC Batch: 404163 Analysis Method: EPA 549.2
 QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
 Associated Lab Samples: 7034728001

METHOD BLANK: 2206063 Matrix: Water
 Associated Lab Samples: 7034728001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/10/17 05:42	

LABORATORY CONTROL SAMPLE: 2206064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.6	82	70-130	

LABORATORY CONTROL SAMPLE: 2206065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	91	50-160	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206885 2206888

Parameter	Units	35345546001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.							
Diquat	ug/L	0.30U	2	2	1.7	1.7	86	84	70-130	3	30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2206887 2206888

Parameter	Units	35345547001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.							
Diquat	ug/L	0.30U	2	2	1.8	1.7	89	84	70-130	6	30

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QUALIFIERS

Project: 334404-01
Pace Project No.: 7034728

DEFINITIONS

DF - Dilution Factor, If reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334404-01
Pace Project No.: 7034728

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7034728001	334404-01	EPA 504.1	46089	EPA 504.1	46190
7034728001	334404-01	EPA 505	45383	EPA 505	45445
7034728001	334404-01	EPA 515.3	46085	EPA 515.3	46182
7034728001	334404-01	EPA 531.1	46995		
7034728001	334404-01	EPA 547	407599		
7034728001	334404-01	EPA 549.2	404163	EPA 549.2	404589
7034728001	334404-01	EPA 525.2	46076	EPA 525.2	46320
7034728001	334404-01	EPA 548.1	404265	EPA 548.1	405275

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CHAIN OF CUSTODY

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

WO#: 7034728



7034728

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Revised by _____

12.4
90
✓
✓

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Collection Time	Comp	Grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl test	Analysis Required
3344401	11/7	1:30				<u>W-1</u>	2 40ml G	thio		EPA 504
							2 40ml G	thio		EPA 505
							1 250ml G	thio		EPA 515.3
							2 1L G	sulfite		EPA 525.2
							2 40ml G	thio		EPA 531.1
							3 40ml G	thio		EPA 547 Glyphosate
							1 250ml G	thio		EPA 548 Endothall
							1 1L Poly	none		EPA 549 Diquat
							1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions:

* Brought in on Thursday with knowledge it's just held here.

Rush Requested? _____ Prepaid? NO

Client Code: _____

Received By:	print	sign	date:	time:
<u>[Signature]</u>			11/20/17	2:20p
<u>[Signature]</u>			11/21/17	15:30
_____			_____	_____
_____			_____	_____

date: 11/20/17
 time: 2:20p
 date: 11/21/17
 time: 15:30
 date: _____
 time: _____
 date: _____
 time: _____



Sample Condition Upon Receipt

Client Name: OCL

Proj WO#: 7034728
 PM: UM2 Due Date: 11/27/17
 CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking #: 1Z 2TP 712 03 4695 2607

Custody Seal on Cooler/Box Present: Yes No
 Packing Material: Bubble Wrap Bubble Bags Ziploc None Other
 Thermometer Used: T1092 Correction Factor: +0.1
 Cooler Temperature (°C): 3.4 Cooler Temperature Corrected (°C): 3.5 Date/Time 5035A kits placed in freezer _____
 Seals Intact: Yes No
 Type of Ice: Wet Blue None
 Samples on ice, cooling process has begun

Temp should be above freezing in 60°C
 USDA Regulated Soil N/A, water sample) Date and Initials of person examining contents: SP 11/3/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filled volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SL, MV, OIL		
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HCL01354</u>		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Par Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? <u>Y</u> <input checked="" type="checkbox"/> N
Residual chlorine strips Lot # <u>0331176</u>		
Headspace in VOA Vials (>8mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

James Murphy
PASI Long Island
2190 Technology Drive
Schenectady NY 12308

**REPORT OF
LABORATORY
ANALYSIS FOR
2,3,7,8-TCDD**

Report Summary:

This report contains results of one drinking water sample analyzed to determine 2,3,7,8-TCDD content. This sample was analyzed according to Method 1613 by High Resolution Gas Chromatography/High Resolution Mass Spectrometry.

Report Prepared Date:

November 16, 2017

Report No.....10409787_1613DW_DFR

Report Information:

Pace Project #: 10409787
Sample Receipt Date: 11/04/2017
Client Project #: 7034728
Client Sub PO #: L9101
State Cert #: 11647

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

November 16, 2017

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

Page 20 of 25

Page 1 of 6



Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	CERT0092
Alaska	MN00064	Nebraska	NE-OS-18-06
Alaska	UST-078	Nevada	MN00064
Arizona	AZ0014	New Jersey (N	MN002
Arkansas	88-0680	New York (NEL	11647
CNMI Saipan	MP0003	New hampshire	2081
California	MN00064	North Carolina	27700
Colorado	MN00064	North Carolina	530
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-L	Ohio	41244
Florida (NELAP	E87605	Ohio VAP	CL101
Georgia (EDP)	959	Oklahoma	9507
Guam EPA	959	Oregon (ELAP)	MN200001
Hawaii	MN00064	Oregon (OREL	MN300001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200011	Puerto Rico	MN00064
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Tennessee	TN02818
Kansas	E-10167	Texas	T104704192
Kentucky	90062	Utah (NELAP)	MN00064
Louisiana	03086	Virginia	460163
Louisiana	MN00064	Washington	C486
Maine	MN00064	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-L

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

Chain of Custody

10409787
Pace Analytical
 www.pace-hls.com

Workorder: 7034728

Workorder Name: 334404-01

Owner Received Date: 11/3/2017 Results Requested By: 11/17/2017

James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592


Pace Analytical Minnesota
 1700 Elm Street
 Suite 200
 Minneapolis, MN 55414
 Phone (612)607-1700

Item	Sample ID	Sample Type	Collection Date/Time	Collection Method	Preserved	1631 Dioxins	LAB USE ONLY
1	334404-01	PS	11/2/2017 13:30	7034728001	Drinking 1	X	001
2							
3							
4							
5							

Transfers
 1 Released By: *Spelman Stain/Pace* Date/Time: 11/3/17 18:00 Received By: *Pace* Date/Time: 11/4/17 9:00
 2
 3

Cooler Temperature on Receipt: *0.6* °C Custody Seal: *Y* or *N* Received on site: *Y* or *N* Samples Intact: *Y* or *N*

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 30Aug2017 Page 1 of 2
	Document No.: F-MN-L-213-rev.21	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt: Pace NY Client Name: Pace NY Project #: WO# 10409787
 Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other: _____
 Tracking Number: 4158 3813 9815

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____
 Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No
 Thermometer Used: 151401163 687A9155100842 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun
 Cooler Temp Read (°C): 1.0 Cooler Temp Corrected (°C): 0.6 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: -0.4 Date and Initials of Person Examining Contents: ME 11/4/17
 USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>wt</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Jeanne Richardson Date: 11-6-17
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Received 11/6/2017
Date Complete 11/14/2017
Date Printed 11/14/2017

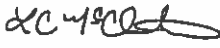
Sample Number 334510-01
Federal ID
Description
Location S-1
Sample Point

Date Sampled 11/06/17 11:15
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
BOD								
BOD - 5 Day	<6	mg/L	SM5210B-01			11/08/17 13:10	JR	
DO								
Dissolved Oxygen	8.30	mg/L	SM20 4500OC			11/06/17 16:10	AM	
PH								
pH	6.49		SM4500H+B			11/06/17 14:50	JR	H3

Qualifiers

H3 = This analysis is no longer ELAP certified.

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

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Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334511-01			S-1		Drinking Water			
Total Coliform(ONPG)	Presence	per 100ml	SM20 9223B-97 C coliform			11/06/17 15:00	AM	o
E.coli (ONPG)	Presence	per 100ml	SM20 9223B-97 C coliform			11/06/17 15:00	AM	o
334511-02			S-1		Drinking Water			
Chloride	12.2	mg/L	SM20 4500CL-C-9 7	250		11/07/17 0:00	JR	
Color (apparent)	60		SM20 2120B-01	15		11/06/17 15:00	JR	
Alkalinity as CaCO3	7.50	mg/L	SM20 2320B-97			11/07/17 0:00	AM	
Hardness as CaCO3, Calcium	15.0	mg/L	SM20 3500CaB-97			11/08/17 11:30	AM	
pH	6.42		SM20 2330H+B			11/06/17 14:50	JR	H3
Corrosivity Index (LI)	-3.42		SM20 2330			11/10/17 0:00	AM	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/07/17 0:00	JR	
Nitrate/Nitrite as N	0.0618	mg/L	La10107041C	10.0		11/08/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B- no	1.0		11/07/17 10:45	JR	
Odor at 60C	None		SM20 2150B-97	3		11/06/17 14:55	JR	OD
Solids, Dissolved Total	46.0	mg/L	SM20 2540C-97	500		11/09/17 15:40	AM	
Turbidity	1.06	ntu	SM20 2130B-01	1		11/06/17 16:05	JR	
334511-03			S-1		Drinking Water			
1,1,1,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,1,1-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,1,2,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,1,2-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,1-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,1-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,1-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U

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Project
Date Sampled 11/6/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334511-03								Drinking Water
			S-1					
1,2,3-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,2,3-Trichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,2,4-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,2,4-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,2-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,2-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,3,5-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,3-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,3-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
1,4-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
2,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
2-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
4-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Benzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Bromobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Bromochloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Bromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Carbon tetrachloride	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Chlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Chloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Chloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Dibromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Dichlorodifluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Ethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Hexachlorobutadiene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Isopropylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Methyl tert-butyl ether	<0.50	ug/L	EPA 524.2	10		11/08/17 10:19	EL	U
Methylene chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Styrene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U

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Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334511-03								Drinking Water
			S-1					
Tetrachloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Toluene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Trichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Trichlorofluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Vinyl chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
cis-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
cis-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
n-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
n-Propylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
p-Isopropyltoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
sec-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
tert-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
trans-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
trans-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
m-Xylene & p-Xylene	<1.0	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
o-Xylene	<0.50	ug/L	EPA 524.2	5		11/08/17 10:19	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2			11/08/17 10:19	EL	U
Bromoform	<0.50	ug/L	EPA 524.2			11/08/17 10:19	EL	U
Chloroform	<0.50	ug/L	EPA 524.2			11/08/17 10:19	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/08/17 10:19	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/08/17 10:19	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:10	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:10	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:10	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:10	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:10	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/14/17 9:30	11/14/17 5:10	EL	U
Silver, Ag	<0.0010	mg/L	EPA 200.8	0.10	11/10/17 11:14	11/13/17 5:57	EL	U

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Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334511-03			S-1					Drinking Water
Copper, Cu	<0.010	mg/L	EPA 200.8	1.3	11/10/17 11:14	11/13/17 5:57	EL	U
Cyanide, Total	<0.0050	mg/L	SM18 4500-CN E	0.2	11/13/17 2:26	11/15/17 10:45	EL	U
Iron, Fe	0.42	mg/L	EPA 200.7	0.30	11/10/17 11:14	11/13/17 6:41	EL	g
Arsenic, As	<0.0014	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Barium, Ba	0.051	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	
Cadmium, Cd	<0.0010	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1		11/15/17 10:30	11/15/17 3:48	EL	U
Selenium, Se	<0.0020	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Antimony, Sb	<0.00040	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Beryllium, Be	<0.00030	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Nickel, Ni	0.00063	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	
Thallium, Tl	<0.00030	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:57	EL	U
Manganese, Mn	0.052	mg/L	EPA 200.7	0.3	11/10/17 11:14	11/13/17 6:41	EL	
Sodium, Na	6.6	mg/L	EPA 200.7		11/10/17 11:14	11/13/17 6:41	EL	
Lead, Pb	<0.0010	mg/L	EPA 200.8	0.015	11/10/17 11:14	11/13/17 5:57	EL	U
Sulfate	<5.0	mg/L	EPA 300.0	250		11/08/17 8:22	EL	U
Zinc, Zn	0.041	mg/L	EPA 200.7	5.0	11/10/17 11:14	11/13/17 6:41	EL	

EL = Analysis by Envirotec Laboratories #10142

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

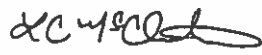
Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/6/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
------	--------	-------	--------	-----	-----------	-----------	----------	------------

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- g = Result fails applicable drinking water standards
- H3 = This analysis is no longer ELAP certified.
- o = Sample not received on ice.
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/6/2017
Date Complete 12/6/2017
Date Printed 12/6/2017

Sample Number 334509-01
Federal ID
Description
Location S-1
Sample Point

Date Sampled 11/06/17 11:15
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)894-3040

December 05, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334509-01
Pace Project No.: 7035391

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

547,548 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager



REPORT OF LABORATORY ANALYSIS

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December 05, 2017
Page 2

Enclosures



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CERTIFICATIONS

Project: 334509-01
Pace Project No.: 7035391

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 8911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 687
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
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(831)694-3040

SAMPLE SUMMARY

Project: 334509-01
Pace Project No.: 7035391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035391001	334509-01	Drinking Water	11/06/17 11:00	11/09/17 10:05

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SAMPLE ANALYTE COUNT

Project: 334508-01
Pace Project No.: 7035391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035391001	334508-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV

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ANALYTICAL RESULTS

Project: 334509-01
 Pace Project No.: 7035391

Sample: 334509-01	Lab ID: 7035391001	Collected: 11/06/17 11:00	Received: 11/09/17 10:05	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 10:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 10:21	106-93-4	
505 GCS Pesticides/PCBs									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Alachlor	<0.20	ug/L	0.20		1	11/13/17 13:21	11/14/17 00:35	15972-80-8	
Aldrin	<0.025	ug/L	0.025		1	11/13/17 13:21	11/14/17 00:35	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/13/17 13:21	11/14/17 00:35	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/13/17 13:21	11/14/17 00:35	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/13/17 13:21	11/14/17 00:35	60-57-1	
Endrin	<0.010	ug/L	0.010		1	11/13/17 13:21	11/14/17 00:35	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/13/17 13:21	11/14/17 00:35	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/13/17 13:21	11/14/17 00:35	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:35	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:35	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:35	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/13/17 13:21	11/14/17 00:35		
Toxaphene	<1.0	ug/L	1.0		1	11/13/17 13:21	11/14/17 00:35	8001-35-2	
<i>Surrogates</i>									
Tetrachloro-m-xylene (S)	102	%	30-150		1	11/13/17 13:21	11/14/17 00:35	877-09-8	
Decachlorobiphenyl (S)	76	%	30-150		1	11/13/17 13:21	11/14/17 00:35	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/15/17 11:52	11/17/17 21:03	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/15/17 11:52	11/17/17 21:03	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/15/17 11:52	11/17/17 21:03	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/15/17 11:52	11/17/17 21:03	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/15/17 11:52	11/17/17 21:03	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/15/17 11:52	11/17/17 21:03	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/15/17 11:52	11/17/17 21:03	93-72-1	
<i>Surrogates</i>									
2,4-DCAA (S)	99	%	70-130		1	11/15/17 11:52	11/17/17 21:03	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/19/17 02:39	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/19/17 02:39	1646-88-4	L1
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/19/17 02:39	1646-87-3	L1
Carbofuran	<0.90	ug/L	0.90		1		11/19/17 02:39	1663-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/19/17 02:39	16655-82-6	L1
Methomyl	<1.0	ug/L	1.0		1		11/19/17 02:39	16752-77-5	L1
Oxamyl	<1.0	ug/L	1.0		1		11/19/17 02:39	23135-22-0	L1
Carbaryl	<1.0	ug/L	1.0		1		11/19/17 02:39	63-25-2	
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0	700	1		11/22/17 19:41		H1

REPORT OF LABORATORY ANALYSIS

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 (631)894-3040

ANALYTICAL RESULTS

Project: 334509-01

Pace Project No.: 7035391

Sample: 334509-01 Lab ID: 7035391001 Collected: 11/08/17 11:00 Received: 11/09/17 10:05 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
625.2 Base Neutral Extractable		Analytical Method: EPA 525.2 Preparation Method: EPA 525.2							
Atrazine	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 18:10	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/13/17 14:14	11/15/17 18:10	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 18:10	23184-66-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/13/17 14:14	11/15/17 18:10	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/13/17 14:14	11/15/17 18:10	117-81-7	M1
Metolachlor	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 18:10	61218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/13/17 14:14	11/15/17 18:10	21087-84-9	M1
Propachlor	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 18:10	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/13/17 14:14	11/15/17 18:10	122-34-9	M1
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	88	%	70-130		1	11/13/17 14:14	11/15/17 18:10	81209	
Perylene-d 12 (S)	101	%	70-130		1	11/13/17 14:14	11/15/17 18:10	1620963	
Triphenylphosphate (S)	79	%	70-130		1	11/13/17 14:14	11/15/17 18:10	115-88-6	
Pyrene-d10 (S)	106	%	70-130		1	11/13/17 14:14	11/15/17 18:10		

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QUALITY CONTROL DATA

Project: 334509-01
 Pace Project No.: 7035391

QC Batch: 47016 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7035391001

METHOD BLANK: 219450 Matrix: Water
 Associated Lab Samples: 7035391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/18/17 16:04	
Aldicarb	ug/L	<0.50	0.50	11/18/17 16:04	
Aldicarb sulfone	ug/L	<0.80	0.80	11/18/17 16:04	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/18/17 16:04	
Carbaryl	ug/L	<1.0	1.0	11/18/17 16:04	
Carbofuran	ug/L	<0.90	0.90	11/18/17 16:04	
Methomyl	ug/L	<1.0	1.0	11/18/17 16:04	
Oxamyl	ug/L	<1.0	1.0	11/18/17 16:04	

LABORATORY CONTROL SAMPLE: 219451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.8	123	80-120 L1	
Aldicarb	ug/L	3.8	4.0	106	80-120	
Aldicarb sulfone	ug/L	3.8	4.8	127	80-120 L1	
Aldicarb sulfoxide	ug/L	3.8	5.0	133	80-120 L1	
Carbaryl	ug/L	3.8	4.4	118	80-120	
Carbofuran	ug/L	3.8	4.5	120	80-120	
Methomyl	ug/L	3.8	5.1	135	80-120 L1	
Oxamyl	ug/L	3.8	4.9	130	80-120 L1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219452 219453

Parameter	Units	7035460005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result					
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.0	4.3	107	115	65-135	7	20
Aldicarb	ug/L	<0.50	3.8	3.8	4.1	4.1	110	110	65-135	0	20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	4.4	4.4	116	117	65-135	0	20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	4.7	4.7	125	125	65-135	1	20
Carbaryl	ug/L	<1.0	3.8	3.8	4.0	4.1	105	110	65-135	4	20
Carbofuran	ug/L	<0.90	3.8	3.8	4.5	4.9	119	131	65-135	10	20
Methomyl	ug/L	<1.0	3.8	3.8	4.1	4.6	110	122	65-135	10	20
Oxamyl	ug/L	<1.0	3.8	3.8	4.5	4.5	119	120	65-135	1	20

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QUALITY CONTROL DATA

Project: 334509-01
 Pace Project No.: 7035391

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035391001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7035391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1	30	H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	80-120	2	30	

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QUALITY CONTROL DATA

Project: 334509-01
 Pace Project No.: 7035391

QC Batch: 46150 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035391001

METHOD BLANK: 215816 Matrix: Water
 Associated Lab Samples: 7035391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/11/17 07:55	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/11/17 07:55	

LABORATORY CONTROL SAMPLE: 215817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.069	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.086	120	70-130	

LABORATORY CONTROL SAMPLE: 215818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	0.011	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	0.011	112	70-130	

MATRIX SPIKE SAMPLE: 210409

Parameter	Units	7035390001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.069	97	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.078	109	65-135	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 575 Broad Hollow Road
 Melville, NY 11747
 (831)894-3040

QUALITY CONTROL DATA

Project: 334509-01
 Pace Project No.: 7035391

QC Batch: 46282 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035391001

METHOD BLANK: 216245 Matrix: Water
 Associated Lab Samples: 7035391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/13/17 17:16	
Aldrin	ug/L	<0.025	0.025	11/13/17 17:16	
Chlordane (Technical)	ug/L	<0.20	0.20	11/13/17 17:16	
Dieldrin	ug/L	<0.050	0.050	11/13/17 17:16	
Endrin	ug/L	<0.010	0.010	11/13/17 17:16	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/13/17 17:16	
Heptachlor	ug/L	<0.025	0.025	11/13/17 17:16	
Heptachlor epoxide	ug/L	<0.020	0.020	11/13/17 17:16	
Hexachlorobenzene	ug/L	<0.10	0.10	11/13/17 17:16	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/13/17 17:16	
Methoxychlor	ug/L	<0.10	0.10	11/13/17 17:16	
PCB Screen	ug/L	<0.40	0.40	11/13/17 17:16	
Toxaphene	ug/L	<1.0	1.0	11/13/17 17:16	
Decachlorobiphenyl (S)	%	113	30-150	11/13/17 17:16	
Tetrachloro-m-xylene (S)	%	107	30-150	11/13/17 17:16	

LABORATORY CONTROL SAMPLE: 216246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.48	101	70-130	
Aldrin	ug/L	.048	0.047	99	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	93	70-130	
Endrin	ug/L	.048	0.047	98	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.058	122	70-130	
Heptachlor	ug/L	.048	0.049	102	70-130	
Heptachlor epoxide	ug/L	.048	0.045	95	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	97	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	94	70-130	
Methoxychlor	ug/L	.24	0.22	92	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			102	30-150	
Tetrachloro-m-xylene (S)	%			104	30-150	

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 (831)894-3040

QUALITY CONTROL DATA

Project: 334509-01
 Pace Project No.: 7035391

MATRIX SPIKE SAMPLE: 216322		7035322001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Alachlor	ug/L	<0.20	.95	0.84	88	65-135	
Aldrin	ug/L	<0.025	.095	0.079	83	65-135	
Chlordane (Technical)	ug/L	<0.20		<0.20			
Dieldrin	ug/L	<0.050	.095	0.081	85	65-135	
Endrin	ug/L	<0.010	.095	0.086	88	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.10	108	65-135	
Heptachlor	ug/L	<0.025	.095	0.087	88	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.078	82	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	83	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	90	65-135	
Methoxychlor	ug/L	<0.10	.48	0.42	87	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				89	30-150	
Tetrachloro-m-xylene (S)	%				98	30-150	

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QUALITY CONTROL DATA

Project: 334609-01
 Pace Project No.: 7035391

QC Batch: 46814 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035391001

METHOD BLANK: 217842 Matrix: Water
 Associated Lab Samples: 7035391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/17/17 18:06	
2,4-D	ug/L	<0.10	0.10	11/17/17 18:06	
Dalapon	ug/L	<0.70	0.70	11/17/17 18:06	
Dicamba	ug/L	<1.0	1.0	11/17/17 18:06	
Dinoseb	ug/L	<0.20	0.20	11/17/17 18:06	
Pentachlorophenol	ug/L	<0.040	0.040	11/17/17 18:06	
Picloram	ug/L	<0.10	0.10	11/17/17 18:06	
2,4-DCAA (S)	%	102	70-130	11/17/17 18:06	

LABORATORY CONTROL SAMPLE: 217843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.22	110	70-130	
2,4-D	ug/L	.6	0.61	101	70-130	
Dalapon	ug/L	2	1.9	96	70-130	
Dicamba	ug/L	.2	<1.0	94	70-130	
Dinoseb	ug/L	.4	0.43	108	70-130	
Pentachlorophenol	ug/L	.2	0.19	93	70-130	
Picloram	ug/L	.2	0.17	84	70-130	
2,4-DCAA (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217893 217894

Parameter	Units	7035458003		217893		217894		% Rec	% Rec	% Rec	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.19	0.19	95	98	65-135	1	20	
2,4-D	ug/L	<0.10	.6	.6	0.52	0.61	86	100	65-135	15	20	
Dalapon	ug/L	<0.70	2	2	1.9	2.0	95	99	65-135	4	20	
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	80	97	65-135		20	
Dinoseb	ug/L	<0.20	.4	.4	0.38	0.39	94	96	65-135	4	20	
Pentachlorophenol	ug/L	<0.040	.2	.2	0.18	0.18	86	87	65-135	2	20	
Picloram	ug/L	<0.10	.2	.2	0.19	0.16	76	81	65-135	16	20 M1	
2,4-DCAA (S)	%						98	98	70-130		20	

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 Melville, NY 11747
 (631)694-3040

QUALITY CONTROL DATA

Project: 334509-01
 Pace Project No.: 7035391

QC Batch: 46235 Analysis Method: EPA 525.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035391001

METHOD BLANK: 216192 Matrix: Water
 Associated Lab Samples: 7035391001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/15/17 12:47	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/15/17 12:47	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/15/17 12:47	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/15/17 12:47	
Butachlor	ug/L	<0.10	0.10	11/15/17 12:47	
Metolachlor	ug/L	<0.10	0.10	11/15/17 12:47	
Metribuzin	ug/L	<0.50	0.50	11/15/17 12:47	
Propachlor	ug/L	<0.10	0.10	11/15/17 12:47	
Simazine	ug/L	<0.070	0.070	11/15/17 12:47	
1,3-Dimethyl-2-nitrobenzene(S)	%	114	70-130	11/15/17 12:47	
Perylene-d12 (S)	%	95	70-130	11/15/17 12:47	
Pyrene-d10 (S)	%	98	70-130	11/15/17 12:47	
Triphenylphosphate (S)	%	79	70-130	11/15/17 12:47	

LABORATORY CONTROL SAMPLE: 218193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	2.0	98	70-130	
Benzo(a)pyrene	ug/L	2	2.0	101	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.8	92	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.3	114	70-130	
Butachlor	ug/L	2	1.7	85	70-130	
Metolachlor	ug/L	2	1.8	90	70-130	
Metribuzin	ug/L	2	1.8	92	70-130	
Propachlor	ug/L	2	1.9	97	70-130	
Simazine	ug/L	2	2.2	109	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			104	70-130	
Perylene-d12 (S)	%			96	70-130	
Pyrene-d10 (S)	%			98	70-130	
Triphenylphosphate (S)	%			88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216403 216404

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7035391001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Atrazine	ug/L	<0.10	2	2	1.5	1.8	73	82	70-130	13	30
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	2.2	104	110	70-130	6	30
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	2.4	2.4	122	121	70-130	1	30

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QUALITY CONTROL DATA

Project: 334509-01

Pace Project No.: 7035391

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216403				216404				% Rec Limits	Max RPD	Qual
		7035391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	3.2	2.6	153	120	70-130	23	30	M1
Butachlor	ug/L	<0.10	2	2	1.7	1.5	84	78	70-130	11	30	
Metolachlor	ug/L	<0.10	2	2	1.8	1.8	89	88	70-130	1	30	
Metribuzin	ug/L	<0.50	2	2	1.5	1.3	76	65	70-130	15	30	M1
Propachlor	ug/L	<0.10	2	2	1.9	1.8	98	91	70-130	5	30	
Simazine	ug/L	<0.070	2	2	1.8	1.3	81	67	70-130	19	30	M1
1,3-Dimethyl-2-nitrobenzene(S)	%						117	101	70-130		30	
Perylene-d12 (S)	%						98	98	70-130		30	
Pyrene-d10 (S)	%						102	104	70-130		30	
Triphenylphosphate (S)	%						89	81	70-130		30	

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(831)894-3040

QUALIFIERS

Project: 334509-01
Pace Project No.: 7035391

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334509-01
Pace Project No.: 7035391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035391001	334509-01	EPA 504.1	46150	EPA 504.1	46191
7035391001	334509-01	EPA 505	46262	EPA 505	46356
7035391001	334509-01	EPA 515.3	46614	EPA 515.3	46843
7035391001	334509-01	EPA 531.1	47016		
7035391001	334509-01	EPA 547	407599		
7035391001	334509-01	EPA 525.2	46235	EPA 525.2	46327

REPORT OF LABORATORY ANALYSIS

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WO#: 7035391



OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Other Samples in Box

CHAIN OF CUSTODY

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) 123
 Sample rec'd on ice? ✓
 Sample set up in 6 hr? ✓
 Properly preserved? ✓
 Within holding times? ✓
 Reviewed by VE

Samples should be brought to the lab ON ICE with a receiving temp of 2 to 6 C

OCL Number	Collection		Sample Description/Location	Containers Not type	Framer- valve	c field	Analysis Required
	Date	Time					
<u>324509-01</u>	<u>11/14</u>	<u>11:00</u>	<u>S-1</u>				SOC Testing Table 9C Complete
				2 40ml G	thio		EPA 504
				2 40ml G	thio		EPA 505
				1 250ml G	thio		EPA 503
				2 1L G	sulfite		EPA 525.2
				2 40ml G	thio		EPA 531.1
				3 40ml G	thio		EPA 547 Glyphosate
				1 250ml G	thio		EPA 548 F-methall
				1 1L Poly	none		EPA 549 Digital
				1 1L G	none		EPA 1612 Dioxin

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? OR

Sampled By: _____	print	sign	date: <u>11/14/11</u>	print	sign	date: <u>11/14/11</u>
Relinquished By: _____	print	sign	time: <u>1:00 P</u>	print	sign	time: <u>3:00 P</u>
Relinquished By: _____	print	sign	date: _____	print	sign	date: <u>11/17</u>
Relinquished By: _____	print	sign	time: _____	print	sign	time: <u>10:05</u>
Relinquished By: _____	print	sign	date: _____	print	sign	date: _____
Relinquished By: _____	print	sign	time: _____	print	sign	time: _____

WO#: 7035391

PM: JM2 Due Date: 11/27/17

CLIENT: OCL

Other Samples in Cooler

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCB
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCB

Sample Temp (C) 12.3
 Sample rec'd or ice?
 Sample set up in 6 hr?
 Properly preserved?
 Within holding times?
 Reviewed by

Samples should be brought to the lab ON ICE with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Q result	Analysis Required
321509-9	11/16	11:15				S-1	2 40ml G	thio		SOC Testing Table 9C Complete
							2 40ml G	thio		EPA 304
							1 250ml G	thio		EPA 305
							2 1L G	sulfite		EPA 515.3
							2 40ml G	thio		EPA 325.2
							3 40ml G	thio		EPA 301.1
							1 250ml G	thio		EPA 548 Endothall
							1 1L Poly	none		EPA 549 Diquat
							1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid?

Received By:	print	sign	date:	time:
Received By:	<u> </u>	<u> </u>	11/17	1:00
Received By:	<u> </u>	<u> </u>	11/17	9:50
Received By:	<u> </u>	<u> </u>		
Received By:	<u> </u>	<u> </u>		



Sample Condition Up

WO#: 7035391

Client Name: OCL

PM: JM2 Due Date: 11/27/17
CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7707 0493 0166

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.52

Cooler Temperature Corrected (°C): 4.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing (i.e. 0°C)

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: J/K WAT

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/D/Analysis Matrix SL/W/OIL			
All containers needing preservation have been checked	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # H1C60V357			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/015 (water). Per Method, VOA pH is checked after analysis	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed; Lot # of added preservative; Date/Time preservative added
Samples checked for dechlorination: J33 WTL	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

DIOL IN NOT INDICATED on chain of custody

525 bottles say 304504-01 for sample

ID. Chain of custody says "334509-01" Sample description

5-1 bottles are logged as per chain of custody

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.01



Sample Condition Upon Receipt

Client Name: OCL

Project

WO#: 7035391

PM: JM2 Due Date: 11/27/17

CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: 1FH92

Correction Factor: 10.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.9

Cooler Temperature Corrected (°C): 50

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: KCB 11/13/17

Did samples originate in a quarantine zone within the United States; AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSE):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SI WT OIL			
All containers needing preservation have been checked:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/DO15 (water). Per Method, VOA pH is checked after analysis	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #			
Headspace in VOA Vials (> 6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145627-1
Client Project/Site: 334509-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 12:42:11 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
"	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145627-1	334509-01	Water	11/08/17 11:00	11/16/17 09:20

3

TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Job ID: 680-145627-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-145627-1

Comments

No additional comments.

Receipt

The sample was received on 11/15/2017 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 548.1: The laboratory control sample (LCS) for preparation batch 680-503658 and analytical batch 680-503770 recovered outside control limits for the following analytes: Endothall. Insufficient volume for re-extraction of the samples outside of hold times. Data has been reported.

Method(s) 548.1: The following sample(s) was received past the extraction holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 334509-01 (680-145627-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Client Sample ID: 334509-01

Lab Sample ID: 680-145627-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND	H *	10.0		ug/L		11/22/17 09:31	11/22/17 22:16	1

5

QC Sample Results

Client: Pace Analytical Services, LLC
 Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503658/16-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 503770						Prep Batch: 503658			
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0		ug/L		11/22/17 09:31	11/22/17 18:21	1

Lab Sample ID: LCS 680-503658/17-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 503770						Prep Batch: 503658			
Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits
Endothall	25.0			ND		ug/L		7	45 - 125

Lab Sample ID: LLCS 680-503658/18-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 503770						Prep Batch: 503658			
Analyte	Spike	LLCS	LLCS	Result	Qualifier	Unit	D	%Rec	Limits
Endothall	10.0			ND		ug/L		0	50 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

GC/MS Semi VOA

Prep Batch: 503658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145627-1	334509-01	Total/NA	Water	548.1	
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145627-1	334509-01	Total/NA	Water	548.1	503658
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	503658
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	503658
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	503658

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Client Sample ID: 334509-01

Lab Sample ID: 680-145627-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503658	11/22/17 09:31	RKL	TAL SAV
Total/NA	Analysis	548.1		1			503770	11/22/17 22:18	JCK	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7868

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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	08-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	6	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30813	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-346	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2983	10-09-18
New Jersey	NELAP	2	TN965	08-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-148	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00288	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-18-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	8	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-18-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

TestAmerica Savannah

Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Method	Method Description	Protocol	Laboratory
548.1	Endothall (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/800/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

10

Chain of Custody



Workorder: 7035391 **Workorder Name:** 334509-01 **Results Requested By:** 11/27/2017
Report/Invoice To: Subcontract To
James Murphy
Pace Analytical New York
2190 Technology Drive
Schenectady, NY 12308
Phone (518)346-4592
Email: james.murphy@pacelabs.com

TA-6A P.O.

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
					Unopened	Opened	
1	334509-01	11/6/2017 11:00	7035391001	Drinking			
2							
3							
4							
5							

shy

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>James Murphy</i>	11/14/17 15:00	<i>James Murphy</i>	11/15/17 09:20	NY sample 5
2					2. KCF+0 2) 3 0
3					

Cooler Temperature on Receipt: °C Custody Seal Y or N Received on ice Y or N Samples Intact Y or N



Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-145627-1

Login Number: 145627

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 6 mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145627-1
Client Project/Site: 334509-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 12:42:11 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
 Project/Site: 334509-01

TestAmerica Job ID: 880-145627-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
DI Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-145627-1	334509-01	Water	11/06/17 11:00	11/15/17 09:20

3

TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Job ID: 680-145627-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-145627-1

Comments

No additional comments.

Receipt

The sample was received on 11/15/2017 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 548.1: The laboratory control sample (LCS) for preparation batch 680-503658 and analytical batch 680-503770 recovered outside control limits for the following analytes: Endothall. Insufficient volume for re-extraction of the samples outside of hold times. Data has been reported.

Method(s) 548.1: The following sample(s) was received past the extraction holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 334509-01 (680-145627-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Client Sample ID: 334509-01

Lab Sample ID: 680-145627-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND	H *	10.0		ug/L		11/22/17 09:31	11/22/17 22:16	1

5

TestAmerica Savannah

QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503658/16-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0		ug/L		11/22/17 09:31	11/22/17 16:21	1

6

Lab Sample ID: LCS 680-503658/17-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	25.0	ND	*	ug/L		7	45 - 125

Lab Sample ID: LLCS 680-503658/16-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503658

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	10.0	ND	*	ug/L		0	50 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

GC/MS Semi VOA

Prep Batch: 503658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145627-1	334509-01	Total/NA	Water	548.1	
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145627-1	334509-01	Total/NA	Water	548.1	503658
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	503658
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	503658
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	503658

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Client Sample ID: 334509-01

Lab Sample ID: 680-145627-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503658	11/22/17 09:31	RKL	TAL SAV
Total/NA	Analysis	548.1		1			503770	11/22/17 22:16	JCK	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 6102 LaRoche Avenue, Savannah, GA 31404, TEL (812)354-7858

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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISOMEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	06-05-18
Arkansas DEQ	State Program	6	68-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN985	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WWSW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00266	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

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Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334509-01

TestAmerica Job ID: 680-145627-1

Method	Method Description	Protocol	Laboratory
548.1	EndoHall (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/800/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Chain of Custody



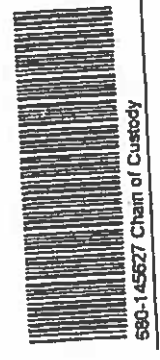
Workorder: 703391 **Workorder Name:** 334509-01 **Results Requested By:** 11/27/2017
Report / Invoice To **Subcontract To**
 James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email: james.murphy@pacelabs.com

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers (Sealed)	LAB USE ONLY
1	33-509-01	11/16/2017 11:00	703391001	Drinking	PH9	
2						
3						
4						
5						

Transfers	Released By	Date/Time	Received By	Date/Time	Received on ice	Y or N	Samples Intact	Y or N
1	James Murphy	11/14/17 18:00	James Murphy	11/15/17 09:20				
2								
3								

Comments: NY sample 5
2-KCF-C-203 P



Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-146627-1

Login Number: 146627

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $< 8\text{mm}$ (1/4").	N/A	
Multiphase samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/6/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334508-01
Federal ID
Description
Location S-1
Sample Point

Date Sampled 11/06/17 11:15
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached						OL	
Radiologicals								
Gross Alpha	see attached			15			PG	
Gross Beta	see attached						PG	
Radium 226	see attached			5			PG	
Radium 228	see attached			5			PG	
Uranium, U	see attached	ug/L		30			PG	
RADON								
Radon	see attached						PG	

attach_01
attach_02

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217111739
 Client Name: OCL Analytical Services



Table I
 Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
 KCE; (Report Amended 11/20/2017)

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334508-01	0.01	6	NSD	NSD	0.21	<0.21	<0.21	---

S-1

*NADNSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepped by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By:  ; Analyzed By:  Date: 11/15/2017
 Aleksandr Barenzolis



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

November 08, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334508
Pace Project No.: 30235234

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334508
Pace Project No.: 30235234

Pennsylvania Certification IDs

1638 Rossetown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2876

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42708

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

SAMPLE SUMMARY

Project: 334508
Pace Project No.: 30235234

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235234001	334508-01	Drinking Water	11/06/17 11:15	11/07/17 09:45

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseylown Road - Sules 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334508
Pace Project No.: 30235234

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235234001	334508-01	SM7500RnB-07	NJV	1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Rossettown Road - Suites 2,3,4
Greensburg, PA 15601
(724)860-5600

PROJECT NARRATIVE

Project: 334508
Pace Project No.: 30235234

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 08, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334508
Pace Project No.: 30235234

Sample: 334508-01 Lab ID: 30235234001 Collected: 11/06/17 11:15 Received: 11/07/17 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	-3.6 ± 25.9 (45.4) C:NA T:NA	pCi/L	11/08/17 00:36	10043-92-2	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334508
Pace Project No.: 30235234

QC Batch:	278240	Analysis Method:	SM7500RnB-07
QC Batch Method:	SM7500RnB-07	Analysis Description:	7500Rn B Radon
Associated Lab Samples:	30235234001		

METHOD BLANK:	1366889	Matrix:	Water
Associated Lab Samples:	30235234001		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	-14.7 ± 19.1 (34.2) C:NA T:NA	pCi/L	11/07/17 22:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334508
Pace Project No.: 30235234

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.98 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____


Bill to: KCE

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	Grab	Matrix	Sample Description/Location	Containers No/type	Preservative	of total	Analysis Required
33508-01	11/16	11:15				S-7	1 LP	HNO3		Gamma-Beta
							1 LP	HNO3		Gamma-Beta
							1 LP	HNO3		Radon-226
							1 LP	HNO3		Radon-228
							1 LP	HNO3		Uranium
							2 40mm	none		Radon in Water
							1 LP	none		PERSESFO6

NO#-30235234

 30235234

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
			11/16/17	6:30				11/16/17	6:30
Relinquished By:			11/16/17	15:30				11/17/17	09:25
Relinquished By:									
Relinquished By:									

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL

Project # 30235234

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label 3A
LIMS Login ANL

Tracking #: 1Z77471X0197219687

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue Nona

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 8°C

Date and Initials of person examining contents: 7/11/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:		/		
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.6 mrem/hr	/			Initial when completed: <u>ZH</u> Date: <u>11/7/17</u>

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 01, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334508
Pace Project No.: 30235533

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

CERTIFICATIONS

Project: 334508
Pace Project No.: 30235533

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9984C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6800

SAMPLE SUMMARY

Project: 334508
Pace Project No.: 30236633

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236633001	334508-01	Drinking Water	11/08/17 11:15	11/09/17 09:50

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

SAMPLE ANALYTE COUNT

Project: 334508
Pace Project No.: 30235533

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235533001	334508-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 334508
Pace Project No.: 30235533

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Rosytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6800

PROJECT NARRATIVE

Project: 334608
Pace Project No.: 30235533

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334508
Pace Project No.: 30235533

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334508
Pace Project No.: 30235533

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Sullas 2,3,4
 Greensburg, PA 15601
 (724)850-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334508
 Pace Project No.: 30235533

Sample: 334608-01 Lab ID: 30235533001 Collected: 11/06/17 11:15 Received: 11/09/17 09:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.864 ± 0.787 (1.55) C:NA T:NA	pCi/L	11/20/17 08:24	12587-46-1	
Gross Beta	EPA 900.0	1.62 ± 0.887 (1.60) C:NA T:NA	pCi/L	11/20/17 08:24	12587-47-2	
Radium-226	EPA 903.1	0.0806 ± 0.158 (0.296) C:NA T:101%	pCi/L	11/27/17 13:30	13982-63-3	
Radium-228	EPA 904.0	0.575 ± 0.488 (1.00) C:70% T:71%	pCi/L	11/16/17 12:03	15282-20-1	
Total Uranium	ASTM D5174-97	0.116 ± 0.005 (0.193) C:NA T:NA	ug/L	11/30/17 17:38	7440-61-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1838 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-6800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334508
 Pace Project No.: 30235533

QC Batch: 278883	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30235533001	

METHOD BLANK: 1388639	Matrix: Water
Associated Lab Samples: 30235533001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0453 ± 0.235 (0.488) C:NA T:93%	pCi/L	11/27/17 12:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334508
Pace Project No.: 30235533

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: KCE
 Name: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to: KCE

Sample Temp (c) 123
 Sample rec'd on ice?
 Sample set up in 6 hr?
 Properly preserved?
 Within holding times?
 Reviewed by

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection		Sample Description/Location	Containers Notype	Preser- valve	d. Resid	Analysis Required
	Date	Time					
334208-4	11/6	11:15	S-1	1 LP	HNO3		Gross Alpha
				1 LP	HNO3		Gross Beta
				1 LP	HNO3		Radium 226
				1 LP	HNO3		Radium 228
				1 LP	HNO3		Uranium
				240mm	none		Radium 226
				1 LP	none		Uranium

WO#: 30235533



Comments/Special Instructions: 30235533

Rush Requested? _____ Client Code: _____ Prepaid?

Sampled By: _____	print	sign	date: 11/6/11	time: 6:50	Received By: _____	print	sign	date: 11/9/17	time: 6:50
Relinquished By: _____	print	sign	date: 11/7/17	time: 11:02	Received By: _____	print	sign	date: 11/9/17	time: 6:50
Relinquished By: _____	print	sign	date: _____	time: _____	Received By: _____	print	sign	date: _____	time: _____
Relinquished By: _____	print	sign	date: _____	time: _____	Received By: _____	print	sign	date: _____	time: _____

Pittsburgh Lab Sample Condition Upon Receipt

30235533



Client Name: OCL

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z2747180396543657

Label	<u>ZH</u>
LIMS Login	<u>ANLV</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used NIA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and initials of person examining contents: ZH 11/9/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16. <u>PITLZ</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>ZH</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr	/			Initial when completed: <u>ZH</u> Date: <u>11/9/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

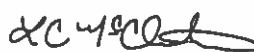
Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/7/2017
Date Complete 11/14/2017
Date Printed 11/14/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334571-01				S-2				Wastewater
BOD - 5 Day	<6	mg/L	SM5210B-01			11/08/17 13:10	JR	
Dissolved Oxygen	11.0	mg/L	SM20 4500OC			11/07/17 15:45	AM	
pH	5.97		SM4500H+B			11/07/17 15:25	JR	H3
334571-02				S-2				Wastewater
Fecal Coliform, MF	160	cfu/100ml	SM9222D-97			11/07/17 15:10	JR	

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

H3 = This analysis is no longer ELAP certified.

OCL Analytical Services

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 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/7/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers	
			S-2						Wastewater
334570-01 Chloride	11.9	mg/L	SM20 4500CL-C-97	250		11/14/17 0:00	AM		
Color (apparent)	50		SM20 2120B-01	15		11/07/17 15:35	JR		
Alkalinity as CaCO3	7.50	mg/L	SM20 2320B-97			11/14/17 0:00	JR		
Hardness as CaCO3, Calcium	10.0	mg/L	SM20 3500CaB-97			11/08/17 11:30	AM		
pH	5.96		SM20 2330H+B			11/07/17 15:25	JR	H3	
Corrosivity Index (LI)	-4.06		SM20 2330			11/14/17 0:00	JR		
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/14/17 0:00	AM		
Nitrate/Nitrite as N	<0.0500	mg/L	La10107041C	10.0		11/08/17 0:00	LM		
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B-nn	1.0		11/07/17 15:25	JR		
Odor at 60C	None		SM20 2150B-97	3		11/07/17 15:30	JR	OD	
Solids, Dissolved Total	46.0	mg/L	SM20 2540C-97	500		11/09/17 15:40	AM		
Turbidity	0.825	ntu	SM20 2130B-01	1		11/07/17 15:45	JR		

334570-02			S-2						Wastewater
1,1,1,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,1,1-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,1,2-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,1-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,1-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,1-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,2,3-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,2,3-Trichloropropane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,2,4-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	
1,2,4-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U	

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Project
 Date Sampled 11/7/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334570-02				S-2				Wastewater
1,2-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
1,2-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
1,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
1,3,5-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
1,3-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
1,3-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
1,4-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
2,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
2-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
4-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Benzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Bromobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Bromochloromethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Bromomethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Carbon tetrachloride	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Chlorobenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Chloroethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Chloromethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Dibromomethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Dichlorodifluoromethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Ethylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Hexachlorobutadiene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Isopropylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Methyl tert-butyl ether	<0.50	ug/L	EPA 524.2	10		11/10/17 3:05	EL	U
Methylene chloride	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Styrene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Tetrachloroethene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Toluene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Trichloroethene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Trichlorofluoromethane	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

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 Fax 845-733-1944
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KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/7/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334570-02								Wastewater
			S-2					
Vinyl chloride	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
cis-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
cis-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
n-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
n-Propylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
p-Isopropyltoluene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
sec-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
tert-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
trans-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
trans-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
m-Xylene & p-Xylene	<1.0	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
o-Xylene	<0.50	ug/L	EPA 524.2	5		11/10/17 3:05	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2			11/10/17 3:05	EL	U
Bromoform	<0.50	ug/L	EPA 524.2			11/10/17 3:05	EL	U
Chloroform	<0.50	ug/L	EPA 524.2			11/10/17 3:05	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/10/17 3:05	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/10/17 3:05	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:36	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:36	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:36	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:36	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 5:36	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/14/17 9:30	11/14/17 5:36	EL	U
Silver, Ag	<0.0010	mg/L	EPA 200.8	0.10	11/10/17 11:14	11/13/17 5:59	EL	U
Cyanide, Total	<0.0050	mg/L	SM18 4500-CN E	0.2	11/13/17 2:26	11/15/17 10:45	EL	U
Copper, Cu	<0.010	mg/L	EPA 200.8	1.3	11/10/17 11:14	11/13/17 5:59	EL	U
Iron, Fe	0.28	mg/L	EPA 200.7	0.3	11/10/17 11:14	11/13/17 6:46	EL	

OCL Analytical Services

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KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/7/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334570-02				S-2	Wastewater			
Lead, Pb	0.0010	mg/L	EPA 200.8	0.015	11/10/17 11:14	11/13/17 5:59	EL	
Manganese, Mn	0.017	mg/L	EPA 200.7	0.3	11/10/17 11:14	11/13/17 6:46	EL	
Arsenic, As	<0.0014	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Barium, Ba	0.046	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	
Cadmium, Cd	<0.0010	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1		11/15/17 10:30	11/15/17 3:50	EL	U
Selenium, Se	<0.0020	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Antimony, Sb	<0.00040	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Beryllium, Be	<0.00030	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Nickel, Ni	0.00061	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	
Thallium, Tl	<0.00030	mg/L	EPA 200.8		11/10/17 11:14	11/13/17 5:59	EL	U
Sodium, Na	7.2	mg/L	EPA 200.7		11/10/17 11:14	11/13/17 6:46	EL	
Sulfate	<5.0	mg/L	EPA 300.0	250		11/08/17 8:35	EL	U
Zinc, Zn	<0.020	mg/L	EPA 200.7	5.0	11/10/17 11:14	11/13/17 6:46	EL	U

EL = Analysis by Envirotest Laboratories #10142

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

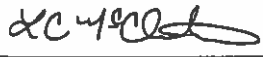
Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/7/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
------	--------	-------	--------	-----	-----------	-----------	----------	------------

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- H3 = This analysis is no longer ELAP certified.
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

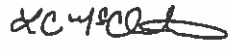
Project
Date Received 11/7/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334568-01
Federal ID
Description
Location S-2
Sample Point

Date Sampled 11/07/17 11:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

November 29, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334568-01
Pace Project No.: 7035163

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

547,548 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334568-01
Pace Project No.: 7035163

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 334568-01
Pace Project No.: 7035163

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035163001	334568-01	Drinking Water	11/07/17 11:30	11/08/17 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 334568-01
Pace Project No.: 7035163

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035163001	334568-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV
		EPA 548.1	JDT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334568-01
Pace Project No.: 7035163

Sample: 334568-01	Lab ID: 7035163001	Collected: 11/07/17 11:30	Received: 11/08/17 09:50	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 04:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 04:41	106-93-4	
505 GCS Pesticides/PCBs									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Alachlor	<0.20	ug/L	0.20		1	11/13/17 13:21	11/13/17 20:12	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/13/17 13:21	11/13/17 20:12	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/13/17 13:21	11/13/17 20:12	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/13/17 13:21	11/13/17 20:12	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/13/17 13:21	11/13/17 20:12	60-57-1	
Endrin	<0.010	ug/L	0.010		1	11/13/17 13:21	11/13/17 20:12	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/13/17 13:21	11/13/17 20:12	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/13/17 13:21	11/13/17 20:12	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/13/17 20:12	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/13/17 20:12	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/13/17 13:21	11/13/17 20:12	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/13/17 13:21	11/13/17 20:12		
Toxaphene	<1.0	ug/L	1.0		1	11/13/17 13:21	11/13/17 20:12	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	30-150		1	11/13/17 13:21	11/13/17 20:12	877-09-8	
Decachlorobiphenyl (S)	65	%	30-150		1	11/13/17 13:21	11/13/17 20:12	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/10/17 11:00	11/12/17 01:51	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/10/17 11:00	11/12/17 01:51	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/10/17 11:00	11/12/17 01:51	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/10/17 11:00	11/12/17 01:51	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/10/17 11:00	11/12/17 01:51	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/10/17 11:00	11/12/17 01:51	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/10/17 11:00	11/12/17 01:51	93-72-1	
Surrogates									
2,4-DCAA (S)	91	%	70-130		1	11/10/17 11:00	11/12/17 01:51	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/18/17 12:33	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/18/17 12:33	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/18/17 12:33	1646-87-3	
Carbofuran	<0.90	ug/L	0.90		1		11/18/17 12:33	1563-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/18/17 12:33	16655-82-6	
Methomyl	<1.0	ug/L	1.0		1		11/18/17 12:33	16752-77-5	
Oxamyl	<1.0	ug/L	1.0		1		11/18/17 12:33	23135-22-0	
Carbaryl	<1.0	ug/L	1.0		1		11/18/17 12:33	63-25-2	
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0	700	1		11/22/17 20:12		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334568-01
Pace Project No.: 7035163

Sample: 334568-01	Lab ID: 7035163001	Collected: 11/07/17 11:30	Received: 11/08/17 09:50	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat									
Analytical Method: EPA 549.2 Preparation Method: EPA 549.2									
Diquat	<0.40	ug/L	0.40	20	1	11/13/17 17:14	11/14/17 07:40	85-00-7	L1,M1
525.2 Base Neutral Extractable									
Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Atrazine	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:56	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/13/17 14:02	11/13/17 20:56	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:56	23184-66-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 20:56	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 20:56	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:56	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/13/17 14:02	11/13/17 20:56	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 20:56	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/13/17 14:02	11/13/17 20:56	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	94	%	70-130		1	11/13/17 14:02	11/13/17 20:56	81209	
Perylene-d12 (S)	104	%	70-130		1	11/13/17 14:02	11/13/17 20:56	1520983	
Triphenylphosphate (S)	84	%	70-130		1	11/13/17 14:02	11/13/17 20:56	115-86-6	
Pyrene-d10 (S)	105	%	70-130		1	11/13/17 14:02	11/13/17 20:56		
548.1 GCS Endothall									
Analytical Method: EPA 548.1 Preparation Method: EPA 548.1									
Endothall	<9.0	ug/L	9.0	100	1	11/13/17 11:00	11/15/17 11:37		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 46995 Analysis Method: EPA 531.1
QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
Associated Lab Samples: 7035163001

METHOD BLANK: 219399 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/17/17 17:11	
Aldicarb	ug/L	<0.50	0.50	11/17/17 17:11	
Aldicarb sulfone	ug/L	<0.80	0.80	11/17/17 17:11	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/17/17 17:11	
Carbaryl	ug/L	<1.0	1.0	11/17/17 17:11	
Carbofuran	ug/L	<0.90	0.90	11/17/17 17:11	
Methomyl	ug/L	<1.0	1.0	11/17/17 17:11	
Oxamyl	ug/L	<1.0	1.0	11/17/17 17:11	

LABORATORY CONTROL SAMPLE: 219400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.3	115	80-120	
Aldicarb	ug/L	3.8	3.9	103	80-120	
Aldicarb sulfone	ug/L	3.8	4.0	107	80-120	
Aldicarb sulfoxide	ug/L	3.8	3.9	104	80-120	
Carbaryl	ug/L	3.8	3.9	104	80-120	
Carbofuran	ug/L	3.8	4.5	119	80-120	
Methomyl	ug/L	3.8	4.2	111	80-120	
Oxamyl	ug/L	3.8	3.9	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219401 219402

Parameter	Units	7034800001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.3	3.6	114	96	65-135	17	20
Aldicarb	ug/L	<0.50	3.8	3.8	3.7	3.8	99	102	65-135	2	20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	3.9	3.7	104	98	65-135	6	20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	3.9	3.8	103	102	65-135	1	20
Carbaryl	ug/L	<1.0	3.8	3.8	3.6	3.4	97	90	65-135	7	20
Carbofuran	ug/L	<0.90	3.8	3.8	3.6	4.2	95	111	65-135	15	20
Methomyl	ug/L	<1.0	3.8	3.8	3.8	3.8	103	101	65-135	1	20
Oxamyl	ug/L	<1.0	3.8	3.8	3.7	3.7	100	100	65-135	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 407599 Analysis Method: EPA 547
QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
Associated Lab Samples: 7035163001

METHOD BLANK: 2225133 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1	30	H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	80-120	2	30	

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 46089 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
Associated Lab Samples: 7035163001

METHOD BLANK: 215660 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/10/17 21:02	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/10/17 21:02	

LABORATORY CONTROL SAMPLE: 215661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.067	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.069	97	70-130	

LABORATORY CONTROL SAMPLE: 215662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.065	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.064	90	70-130	

LABORATORY CONTROL SAMPLE: 215843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	0.010	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	<0.010	93	70-130	

MATRIX SPIKE SAMPLE: 215690

Parameter	Units	7035322002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.069	96	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.074	102	65-135	

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QUALITY CONTROL DATA

Project: 334568-01
 Pace Project No.: 7035163

MATRIX SPIKE SAMPLE: 216322		7035322001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Alachlor	ug/L	<0.20	.95	0.84	88	65-135	
Aldrin	ug/L	<0.025	.095	0.079	83	65-135	
Chlordane (Technical)	ug/L	<0.20		<0.20			
Dieldrin	ug/L	<0.050	.095	0.081	85	65-135	
Endrin	ug/L	<0.010	.095	0.086	88	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.10	108	65-135	
Heptachlor	ug/L	<0.025	.095	0.087	88	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.078	82	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	83	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	90	65-135	
Methoxychlor	ug/L	<0.10	.48	0.42	87	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				89	30-150	
Tetrachloro-m-xylene (S)	%				98	30-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 46085 Analysis Method: EPA 515.3
QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
Associated Lab Samples: 7035163001

METHOD BLANK: 215651 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/11/17 16:00	
2,4-D	ug/L	<0.10	0.10	11/11/17 16:00	
Dalapon	ug/L	<0.70	0.70	11/11/17 16:00	
Dicamba	ug/L	<1.0	1.0	11/11/17 16:00	
Dinoseb	ug/L	<0.20	0.20	11/11/17 16:00	
Pentachlorophenol	ug/L	<0.040	0.040	11/11/17 16:00	
Picloram	ug/L	<0.10	0.10	11/11/17 16:00	
2,4-DCAA (S)	%	100	70-130	11/11/17 16:00	

LABORATORY CONTROL SAMPLE: 215652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.18	92	70-130	
2,4-D	ug/L	.6	0.58	96	70-130	
Dalapon	ug/L	2	2.0	100	70-130	
Dicamba	ug/L	.2	<1.0	80	70-130	
Dinoseb	ug/L	.4	0.39	97	70-130	
Pentachlorophenol	ug/L	.2	0.18	89	70-130	
Picloram	ug/L	.2	0.15	76	70-130	
2,4-DCAA (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215653 215654

Parameter	Units	7034498001		MSD		MSD		% Rec		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.19	0.17	96	84	65-135	12	20	
2,4-D	ug/L	<0.10	.6	.6	0.52	0.57	83	91	65-135	9	20	
Dalapon	ug/L	<0.70	2	2	1.9	1.7	96	84	65-135	13	20	
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	90	74	65-135		20	
Dinoseb	ug/L	<0.20	.4	.4	0.38	0.31	95	78	65-135	20	20	
Pentachlorophenol	ug/L	<0.040	.2	.2	0.17	0.16	83	74	65-135	10	20	
Picloram	ug/L	<0.10	.2	.2	0.15	0.14	76	70	65-135	8	20	
2,4-DCAA (S)	%						108	88	70-130		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 46076 Analysis Method: EPA 525.2
QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
Associated Lab Samples: 7035163001

METHOD BLANK: 215604 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/13/17 14:47	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/13/17 14:47	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/13/17 14:47	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/13/17 14:47	
Butachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metolachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metribuzin	ug/L	<0.50	0.50	11/13/17 14:47	
Propachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Simazine	ug/L	<0.070	0.070	11/13/17 14:47	
1,3-Dimethyl-2-nitrobenzene(S)	%	105	70-130	11/13/17 14:47	
Perylene-d12 (S)	%	103	70-130	11/13/17 14:47	
Pyrene-d10 (S)	%	96	70-130	11/13/17 14:47	
Triphenylphosphate (S)	%	93	70-130	11/13/17 14:47	

LABORATORY CONTROL SAMPLE: 215605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	1.7	87	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	94	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.3	114	70-130	
Butachlor	ug/L	2	1.5	76	70-130	
Metolachlor	ug/L	2	1.9	93	70-130	
Metribuzin	ug/L	2	1.8	89	70-130	
Propachlor	ug/L	2	1.8	92	70-130	
Simazine	ug/L	2	1.9	95	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			105	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			95	70-130	
Triphenylphosphate (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215606 215607

Parameter	Units	215606		215607		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7034483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
Atrazine	ug/L	<0.10	2	2	1.7	1.4	84	72	70-130	16	30
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	1.7	104	85	70-130	20	30
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	2.1	1.8	107	90	70-130	17	30

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

Parameter	Units	215606		215607		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		7034483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.6	2.2	123	105	70-130	15	30		
Butachlor	ug/L	<0.10	2	2	1.7	2.0	87	101	70-130	15	30		
Metolachlor	ug/L	<0.10	2	2	1.8	2.5	92	123	70-130	29	30		
Metribuzin	ug/L	<0.50	2	2	1.8	1.5	88	73	70-130	19	30		
Propachlor	ug/L	<0.10	2	2	1.9	11.1	93	554	70-130	143	30	M1,R1	
Simazine	ug/L	<0.070	2	2	1.9	1.3	96	63	70-130	42	30	M1,R1	
1,3-Dimethyl-2-nitrobenzene(S)	%						97	0	70-130		30	S0	
Perylene-d12 (S)	%						98	97	70-130		30		
Pyrene-d10 (S)	%						97	136	70-130		30	S0	
Triphenylphosphate (S)	%						83	77	70-130		30		

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 405024 Analysis Method: EPA 548.1
QC Batch Method: EPA 548.1 Analysis Description: 548 GCS Endothall
Associated Lab Samples: 7035163001

METHOD BLANK: 2211796 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Endothall	ug/L	<9.0	9.0	11/15/17 19:16	

LABORATORY CONTROL SAMPLE: 2211797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	50	41.1	82	80-120	

LABORATORY CONTROL SAMPLE: 2211798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endothall	ug/L	9	<9.0	80	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211963 2211964

Parameter	Units	35347301001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
			Spike Conc.	Spike Conc.						RPD	RPD	
Endothall	ug/L	<4.3	50	50	41.2	32.0	82	64	80-120	25	30	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211965 2211966

Parameter	Units	35347364002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
			Spike Conc.	Spike Conc.						RPD	RPD	
Endothall	ug/L	<4.3	50	50	49.1	35.9	98	72	80-120	31	30	M1,R1

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QUALITY CONTROL DATA

Project: 334568-01
Pace Project No.: 7035163

QC Batch: 405060 Analysis Method: EPA 549.2
QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
Associated Lab Samples: 7035163001

METHOD BLANK: 2211905 Matrix: Water
Associated Lab Samples: 7035163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/14/17 06:39	

LABORATORY CONTROL SAMPLE: 2211906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	3.7	186	70-130	L1

LABORATORY CONTROL SAMPLE: 2211907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	88	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211908 2211909

Parameter	Units	7035146004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Diquat	ug/L	<0.40	2	2	2.3	2.4	116	121	70-130	5	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2211910 2211911

Parameter	Units	7035163001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Diquat	ug/L	<0.40	2	2	3.5	3.4	176	171	70-130	3	30	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334588-01
Pace Project No.: 7035163

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334568-01
Pace Project No.: 7035163

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035163001	334568-01	EPA 504.1	46089	EPA 504.1	46190
7035163001	334568-01	EPA 505	46262	EPA 505	46356
7035163001	334568-01	EPA 515.3	46085	EPA 515.3	46182
7035163001	334568-01	EPA 531.1	46995		
7035163001	334568-01	EPA 547	407599		
7035163001	334568-01	EPA 549.2	405060	EPA 549.2	405293
7035163001	334568-01	EPA 525.2	46076	EPA 525.2	46320
7035163001	334568-01	EPA 548.1	405024	EPA 548.1	405609

REPORT OF LABORATORY ANALYSIS

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WO#: 7035163



Ref: 7035163

Address: KLE
 City, State, Zip: _____
 Phone: _____

Bill to: RUE

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) 10.7
 Sample rec'd on ice? YES
 Sample set up in 6 hr? YES
 Properly preserved? YES
 Within holding times? YES
 Reviewed by AW

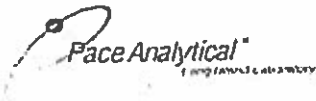
Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	matrix	grab	comp	Sample Description/Location	Containers Not type	Praser- vative	Analysis Required
7035163-1	11/7	11:30				S. 2	2 40ml G	thio	EPA 504
							2 40ml G	thio	EPA 505
							1 250ml G	thio	EPA 515.3
							2 1L G	sulfite	EPA 525.2
							2 40ml G	thio	EPA 531.1
							3 40ml G	thio	EPA 547 Glyphosate
							1 250ml G	thio	EPA 548 Endothal
							1 1L Poly	none	EPA 549 Diquat
							1 1L G	none	EPA 1613 Dioxin

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
_____	_____	_____	11/17/17	11:17
Relinquished By:	print	sign	date:	time:
_____	_____	_____	11/8/17	5:2
Relinquished By:	print	sign	date:	time:
_____	_____	_____	9:50	5:2
Relinquished By:	print	sign	date:	time:
_____	_____	_____	_____	_____



Sample Condition Upon Receipt

Client Name: _____

Project: _____

WO#: 7035163

PM: JM2 Due Date: 11/22/17

CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1Z 27Y 718 03 9632 8687

Custody Seal on Cooler/Box Present: Yes No

Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 5.2

Cooler Temperature Corrected (°C): 5.3

Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: CB 11/8/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix <u>SL WT OIL</u>			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HCG01354</u>			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? <u>Y</u> (N)
Residual chlorine strips Lot # <u>033171</u>			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____			

Client Notification/ Resolution: _____

Field Data Required? _____

Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/14/2017
 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334791-01			S-3					Drinking Water
Chloride	9.98	mg/L	SM20 4500CL-C-97	250		11/21/17 0:00	JR	
Color (apparent)	60		SM20 2120B-01	15		11/14/17 14:50	AM	
Alkalinity as CaCO3	<10.0	mg/L	SM20 2320B-97			11/21/17 0:00	AM	
Hardness as CaCO3, Calcium	14.0	mg/L	SM20 3500CaB-97			11/15/17 13:10	JR	
pH	5.58		SM20 2330H+B			11/14/17 14:45	AM	H3
Corrosivity Index (LI)	-4.35		SM20 2330			11/21/17 0:00	AM	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/21/17 0:00	JR	
Nitrate/Nitrite as N	0.0589	mg/L	La10107041C	10.0		11/15/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B-nn	1.0		11/14/17 15:00	AM	
Odor at 60C	None		SM20 2150B-97	3		11/14/17 14:50	AM	OD
Solids, Dissolved Total	43.0	mg/L	SM20 2540C-97	500		11/15/17 14:15	AM	
Turbidity	0.820	ntu	SM20 2130B-01	1		11/14/17 15:15	AM	

334791-02			S-3					Drinking Water
1,1,1,2-Tetrachloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,1,1-Trichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,1,2,2-Tetrachloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,1,2-Trichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,1-Dichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,1-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,1-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,2,3-Trichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,2,3-Trichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,2,4-Trichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,2,4-Trimethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

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Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334791-02			S-3					Drinking Water
1,2-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,2-Dichloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,2-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,3,5-Trimethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,3-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,3-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
1,4-Dichlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
2,2-Dichloropropane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
2-Chlorotoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
4-Chlorotoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Benzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Bromobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Bromochloromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Bromomethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Carbon tetrachloride	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Chlorobenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Chloroethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Chloromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Dibromomethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Dichlorodifluoromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Ethylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Hexachlorobutadiene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Isopropylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Methyl tert-butyl ether	<1.0	ug/L	EPA 524.2	10	11/17/17 1:44	11/17/17 1:44	EL	U
Methylene chloride	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Styrene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Tetrachloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Toluene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Trichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Trichlorofluoromethane	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/14/2017
 Date Complete 12/1/2017
 Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334791-02								Drinking Water
			S-3					
Vinyl chloride	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
cis-1,2-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
cis-1,3-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
n-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
n-Propylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
p-Isopropyltoluene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
sec-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
tert-Butylbenzene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
trans-1,2-Dichloroethene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
trans-1,3-Dichloropropene	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Xylenes, Total	<1.0	ug/L	EPA 524.2	5	11/17/17 1:44	11/17/17 1:44	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2		11/17/17 1:44	11/16/17 9:01	EL	U
Bromoform	<0.50	ug/L	EPA 524.2		11/17/17 1:44	11/16/17 9:01	EL	U
Chloroform	<0.50	ug/L	EPA 524.2		11/17/17 1:44	11/16/17 9:01	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2		11/17/17 1:44	11/16/17 9:01	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/16/17 9:01	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:27	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:27	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:27	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:27	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/20/17 9:30	11/20/17 11:27	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/20/17 9:30	11/20/17 11:27	EL	U
Arsenic, As	<0.010	mg/L	EPA 200.7	0.01	11/17/17 9:50	11/20/17 8:03	EL	U
Barium, Ba	<0.20	mg/L	EPA 200.7	2.00	11/17/17 9:50	11/20/17 8:03	EL	U
Cadmium, Cd	<0.0050	mg/L	EPA 200.7	0.005	11/17/17 9:50	11/20/17 8:03	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.7	0.10	11/17/17 9:50	11/20/17 8:03	EL	U
Lead, Pb	<0.0050	mg/L	EPA 200.7	0.015	11/17/17 9:50	11/20/17 8:03	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1	0.002	11/21/17 10:30	11/22/17 1:26	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/14/2017
Date Complete 12/1/2017
Date Printed 12/1/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334791-02								Drinking Water
Selenium, Se	<0.010	mg/L	EPA 200.7	0.05	11/17/17 9:50	11/20/17 8:03	EL	U
Silver, Ag	<0.010	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:03	EL	U
Copper, Cu	<0.025	mg/L	EPA 200.7	1.3	11/17/17 9:50	11/20/17 8:03	EL	U
Iron, Fe	0.27	mg/L	EPA 200.7	0.3	11/17/17 9:50	11/20/17 8:03	EL	
Manganese, Mn	0.028	mg/L	EPA 200.7	0.3	11/17/17 9:50	11/20/17 8:03	EL	
Sodium, Na	6.2	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:03	EL	
Zinc, Zn	0.028	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:03	EL	
Antimony, Sb	<0.060	mg/L	EPA 200.7	0.006	11/17/17 9:50	11/20/17 8:03	EL	U
Beryllium, Be	<0.0050	mg/L	EPA 200.7	0.004	11/17/17 9:50	11/20/17 8:03	EL	U
Nickel, Ni	<0.040	mg/L	EPA 200.7		11/17/17 9:50	11/20/17 8:03	EL	U
Thallium, Tl	<0.010	mg/L	EPA 200.7	0.002	11/17/17 9:50	11/20/17 8:03	EL	U
Cyanide, Total	<0.010	mg/L	EPA 335.4		11/17/17 10:30	11/17/17 2:57	EL	U
Sulfate	<5.0	mg/L	EPA 300.0	250		11/16/17 1:21	EL	U

EL = Analysis by Envirotest Laboratories #10142

334791-03								Drinking Water
Fecal Coliform, MF	<5	cfu/100ml	SM9222D-97			11/14/17 15:10	AM	

Approved By

Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- H3 = This analysis is no longer ELAP certified.
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL Analytical Services

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Bloomingburg NY 12721

Phone 845-733-1557

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Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/7/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334569-01
Federal ID
Description
Location S-2
Sample Point

Date Sampled 11/07/17 11:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached							OL
Radiologicals								
Gross Alpha	see attached			15				PG
Gross Beta	see attached							PG
Radium 226	see attached			5				PG
Radium 228	see attached			5				PG
Uranium, U	see attached	ug/L		30				PG
RADON								
Radon	see attached							PG

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217111877
 Client Name: OCL Analytical Services


Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
 KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334569-01	0.01	3	NSD	NSD	0.21	<0.21	<0.21	---

S-2

*NAD/NSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepiped by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: _____; Analyzed By: ; Date: 11/15/2017
 Karol H. Lu



Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 09, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334569
Pace Project No.: 30235347

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-6600

CERTIFICATIONS

Project: 334689
Pace Project No.: 30235347

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42708
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C888
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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1638 Rossettown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 334569
Pace Project No.: 30235347

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235347001	334569-01	Drinking Water	11/07/17 11:30	11/08/17 09:50

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Greenburg, PA 16601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334669
Pace Project No.: 30235347

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235347001	334669-01	SM7500RnB-07	NJV	1

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1636 Rossetown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5800

PROJECT NARRATIVE

Project: 334568
Pace Project No.: 30235347

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 09, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334589
Pace Project No.: 30235347

Sample: 334589-01 Lab ID: 30235347001 Collected: 11/07/17 11:30 Received: 11/08/17 09:50 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	3.6 ± 25.2 (43.8) C:NA T:NA	pCi/L	11/08/17 23:44	10043-92-2	

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

QUALIFIERS

Project: 334569
Pace Project No.: 30235347

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Date: 11/09/2017 11:18 AM

Page 8 of 10

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) 10.7
 Sample rec'd on ice? yes
 Sample set up in 6 hr? yes
 Properly preserved? yes
 Within holding times? yes
 Reviewed by [Signature]

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preser- vative	ol test	Analysis Required
<u>23456789</u>	<u>11/7</u>	<u>11:30</u>				<u>S-2</u>	<u>1 LP</u>	<u>HNO3</u>		<u>Gross Alpha</u>
							<u>1 LP</u>	<u>HNO3</u>		<u>Gross Beta</u>
							<u>1 LP</u>	<u>HNO3</u>		<u>Radium-226</u>
							<u>1 LP</u>	<u>HNO3</u>		<u>Radium-228</u>
							<u>1 LP</u>	<u>HNO3</u>		<u>Uranium</u>
							<u>2 40mm</u>	<u>none</u>		<u>Radon in Water</u>
							<u>1 LP</u>	<u>none</u>		<u>ACCRETION</u>

NO#: 30235347

 30235347

Comments/Special Instructions: _____
 Rush Requested? _____ Prepaid? NO
 Client Code: _____

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
<u>[Signature]</u>			<u>11/7/11</u>		<u>[Signature]</u>			<u>11-8-17</u>	

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: KCE

Project # 30235347

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label BA
LIMS Login PNV

Tracking #: 1Z27Y7180199181466

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None
Cooler Temperature Observed Temp N/A °C Correction Factor _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and Initials of person examining contents: ML 11-8-17

Comments:

	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Includes date/time/ID Matrix: <u>LA</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>ML</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17.
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: _____ Date: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the BRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 01, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334569
Pace Project No.: 30235536

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 16801
(724)850-6800

CERTIFICATIONS

Project: 334588
Pace Project No.: 30235538

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 16801

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87883

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4088

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42708

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9984C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)860-6800

SAMPLE SUMMARY

Project: 334589
Pace Project No.: 30235538

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235538001	334589-01	Drinking Water	11/07/17 11:30	11/09/17 09:50

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6800

SAMPLE ANALYTE COUNT

Project: 334589
Pace Project No.: 30235536

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235536001	334589-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6000

PROJECT NARRATIVE

Project: 334569
Pace Project No.: 30235536

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

PROJECT NARRATIVE

Project: 334569
Pace Project No.: 30236538

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, LLC
1838 Rossetown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6800

PROJECT NARRATIVE

Project: 334589
Pace Project No.: 30235538

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

PROJECT NARRATIVE

Project: 334589
Pace Project No.: 30235638

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334589
 Pace Project No.: 30235538

Sample: 334589-01 Lab ID: 30235536001 Collected: 11/07/17 11:30 Received: 11/09/17 09:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.005 ± 0.475 (1.39) C:NA T:NA	pCi/L	11/21/17 08:37	12587-46-1	
Gross Beta	EPA 900.0	0.809 ± 0.962 (2.12) C:NA T:NA	pCi/L	11/21/17 08:37	12587-47-2	
Radium-226	EPA 903.1	0.0501 ± 0.0982 (0.138) C:NA T:90%	pCi/L	11/27/17 14:04	13982-63-3	
Radium-228	EPA 904.0	0.143 ± 0.389 (0.797) C:79% T:59%	pCi/L	11/22/17 11:30	16282-20-1	
Total Uranium	ASTM D5174-97	0.127 ± 0.005 (0.193) C:NA T:NA	ug/L	11/30/17 17:48	7440-61-1	

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334569
 Pace Project No.: 30235536

QC Batch: 278839	Analysis Method: ASTM D5174-97
QC Batch Method: ASTM D5174-97	Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 30235536001	

METHOD BLANK: 1369524 Matrix: Water
 Associated Lab Samples: 30235536001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.020 ± 0.002 (0.193) C:NA T:NA	ug/L	11/21/17 13:47	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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 1638 Roseytown Road - Sullis 2,3,4
 Greensburg, PA 16601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334589
 Pace Project No.: 30235536

QC Batch: 278883	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30235536001	

METHOD BLANK: 1368639	Matrix: Water
Associated Lab Samples: 30235536001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0453 ± 0.235 (0.488) C:NA T:93%	pCi/L	11/27/17 12:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334569
 Pace Project No.: 30235536

QC Batch: 278686	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30235536001	

METHOD BLANK: 1368642 Matrix: Water
 Associated Lab Samples: 30235536001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.642 ± 0.419 (0.786) C:74% T:77%	pCi/L	11/16/17 12:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
 1838 Roseytown Road - Suites 2,3,4
 Greenburg, PA 15601
 (724)850-6800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334569

Pace Project No.: 30235536

QC Batch: 278880	Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0	Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30235536001	

METHOD BLANK: 1389890 Matrix: Water

Associated Lab Samples: 30235536001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.650 ± 0.854 (1.82) C:NA T:NA	pCi/L	11/21/17 08:29	
Gross Beta	-0.044 ± 0.749 (1.83) C:NA T:NA	pCi/L	11/21/17 08:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334589
Pace Project No.: 30235538

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.98 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to: KCE

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Property preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCCL Number	Collection Date Time	Sample Description/Location	Containers Notype	Preservative	Analysis Required
23456789	11/7 1:30p	S-2	1 LP	HNO3	Gross Alpha
			1 LP	HNO3	Gross Beta
			1 LP	HNO3	Radium 226
			1 LP	HNO3	Radium 228
			1 LP	HNO3	Uranium
			2 formic none	none	Radium in water
			1 LP	none	ADDITION

NO#: 30235536



Comments/Special Instructions: 30235536
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print sign	date: 11/7/11	time: 1:30p	Received By:	print sign	date: 11/7/11	time: 0950
Relinquished By:	print sign	date: 11/7/11	time: 1:30p	Received By:	print sign	date: 11/9/11	time: 0950
Relinquished By:	print sign	date: _____	time: _____	Received By:	print sign	date: _____	time: _____
Relinquished By:	print sign	date: _____	time: _____	Received By:	print sign	date: _____	time: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCU

Project # 30235536

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z274718039206097

Label	<u>ZH</u>
LIMS Login	<u>ANL</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 11/9/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16. <u>PHLT</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/Time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr	/			Initial when completed: <u>ZH</u> Date: <u>11/9/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/14/2017
Date Complete 12/15/2017
Date Printed 12/15/2017

Sample Number 334794-01
Federal ID
Description
Location S-3
Sample Point

Date Sampled 11/14/17 11:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)894-3040

December 14, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334794-01
Pace Project No.: 7035822

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

547& 549 Samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

548 samples were sub contracted to TA-Georgia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)894-3040

December 14, 2017
Page 2

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)894-3040

CERTIFICATIONS

Project: 334794-01
Pace Project No.: 7035822

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200088
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #98042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079870
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)684-3040

SAMPLE SUMMARY

Project: 334784-01
Pace Project No.: 7035822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035822001	334794-01	Drinking Water	11/14/17 11:30	11/15/17 10:35

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575 Broad Hollow Road
Melville, NY 11747
(831)884-3040

SAMPLE ANALYTE COUNT

Project: 334794-01
Pace Project No.: 7035822

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035822001	334794-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV

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ANALYTICAL RESULTS

Project: 334794-01
 Pace Project No.: 7035822

Sample: 334794-01 Lab ID: 7035822001 Collected: 11/14/17 11:30 Received: 11/15/17 10:35 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/17/17 14:57	11/17/17 21:45	98-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/17/17 14:57	11/17/17 21:45	108-93-4	
505 GCS Pesticides/PCBs									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Alechlor	<0.20	ug/L	0.20		1	11/20/17 13:36	11/20/17 21:20	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/20/17 13:36	11/20/17 21:20	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/20/17 13:36	11/20/17 21:20	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/20/17 13:36	11/20/17 21:20	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/20/17 13:36	11/20/17 21:20	80-57-1	
Endrin	<0.010	ug/L	0.010		1	11/20/17 13:36	11/20/17 21:20	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/20/17 13:36	11/20/17 21:20	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/20/17 13:36	11/20/17 21:20	1024-67-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 21:20	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 21:20	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/20/17 13:36	11/20/17 21:20	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/20/17 13:36	11/20/17 21:20		
Toxaphene	<1.0	ug/L	1.0		1	11/20/17 13:36	11/20/17 21:20	8001-35-2	
<i>Surrogates</i>									
Tetrachloro-m-xylene (S)	112	%	30-150		1	11/20/17 13:36	11/20/17 21:20	877-09-8	
Decachlorobiphenyl (S)	68	%	30-150		1	11/20/17 13:36	11/20/17 21:20	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/17/17 14:00	11/22/17 22:39	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/17/17 14:00	11/22/17 22:39	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/17/17 14:00	11/22/17 22:39	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/17/17 14:00	11/22/17 22:39	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/17/17 14:00	11/22/17 22:39	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/17/17 14:00	11/22/17 22:39	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/17/17 14:00	11/22/17 22:39	93-72-1	
<i>Surrogates</i>									
2,4-DCAA (S)	104	%	70-130		1	11/17/17 14:00	11/22/17 22:39	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/22/17 23:44	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/22/17 23:44	1646-88-4	
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/22/17 23:44	1646-87-3	L1
Carbofuran	<0.90	ug/L	0.90		1		11/22/17 23:44	1563-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/22/17 23:44	16655-82-6	L1
Methomyl	<1.0	ug/L	1.0		1		11/22/17 23:44	16752-77-6	
Oxamyl	<1.0	ug/L	1.0		1		11/22/17 23:44	23135-22-0	
Carbaryl	<1.0	ug/L	1.0		1		11/22/17 23:44	63-25-2	
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0	700	1		11/22/17 22:32		

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ANALYTICAL RESULTS

Project: 334794-01
 Pace Project No.: 7035822

Sample: 334794-01 Lab ID: 7035822001 Collected: 11/14/17 11:30 Received: 11/15/17 10:35 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat		Analytical Method: EPA 549.2 Preparation Method: EPA 549.2							
Diquat	<0.40	ug/L	0.40	20	1	11/20/17 21:02	11/21/17 02:12	85-00-7	
525.2 Base Neutral Extractable		Analytical Method: EPA 525.2 Preparation Method: EPA 525.2							
Atrazine	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 03:36	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/17/17 18:11	11/28/17 03:36	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 03:36	23184-66-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/17/17 18:11	11/28/17 03:36	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/17/17 18:11	11/28/17 03:36	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 03:36	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/17/17 18:11	11/28/17 03:36	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/17/17 18:11	11/28/17 03:36	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/17/17 18:11	11/28/17 03:36	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	97	%	70-130		1	11/17/17 18:11	11/28/17 03:36	81209	
Perylene-d12 (S)	88	%	70-130		1	11/17/17 18:11	11/28/17 03:36	1520963	
Triphenylphosphate (S)	123	%	70-130		1	11/17/17 18:11	11/28/17 03:36	115-86-6	
Pyrene-d10 (S)	108	%	70-130		1	11/17/17 18:11	11/28/17 03:36		

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QUALITY CONTROL DATA

Project: 334794-01
 Pace Project No.: 7035822

QC Batch: 47317 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7035822001

METHOD BLANK: 220707 Matrix: Water
 Associated Lab Samples: 7035822001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/22/17 14:32	
Aldicarb	ug/L	<0.50	0.50	11/22/17 14:32	
Aldicarb sulfone	ug/L	<0.80	0.80	11/22/17 14:32	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/22/17 14:32	
Carbaryl	ug/L	<1.0	1.0	11/22/17 14:32	
Carbofuran	ug/L	<0.90	0.90	11/22/17 14:32	
Methomyl	ug/L	<1.0	1.0	11/22/17 14:32	
Oxamyl	ug/L	<1.0	1.0	11/22/17 14:32	

LABORATORY CONTROL SAMPLE: 220708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.8	123	80-120	L1
Aldicarb	ug/L	3.8	3.8	97	80-120	
Aldicarb sulfone	ug/L	3.8	4.1	110	80-120	
Aldicarb sulfoxide	ug/L	3.8	4.8	127	80-120	L1
Carbaryl	ug/L	3.8	3.9	104	80-120	
Carbofuran	ug/L	3.8	4.5	119	80-120	
Methomyl	ug/L	3.8	4.2	112	80-120	
Oxamyl	ug/L	3.8	4.4	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 220709 220710

Parameter	Units	220709		220710		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7036217001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.4	4.9	118	131	65-135	10	20
Aldicarb	ug/L	<0.50	3.8	3.8	3.7	3.7	99	100	65-135	1	20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	4.2	4.3	113	115	65-135	2	20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	4.4	4.8	117	127	65-135	8	20
Carbaryl	ug/L	<1.0	3.8	3.8	3.8	4.0	100	108	65-135	8	20
Carbofuran	ug/L	<0.90	3.8	3.8	4.4	5.2	117	138	65-135	17	20 M1
Methomyl	ug/L	<1.0	3.8	3.8	4.3	4.7	115	125	65-135	8	20
Oxamyl	ug/L	<1.0	3.8	3.8	4.3	5.0	115	133	65-135	14	20

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QUALITY CONTROL DATA

Project: 334794-01
 Pace Project No.: 7035822

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035822001

METHOD BLANK: 2225133
 Associated Lab Samples: 7035822001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001 Result	MS Spike Conc.	MSD Spike Conc.	2225135		2225136		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1 30	H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001 Result	MS Spike Conc.	MSD Spike Conc.	2225137		2225138		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	80-120	2 30	

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QUALITY CONTROL DATA

Project: 334794-01
 Pace Project No.: 7035822

QC Batch: 48975 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035822001

METHOD BLANK: 219308 Matrix: Water
 Associated Lab Samples: 7035822001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/17/17 17:18	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/17/17 17:18	

LABORATORY CONTROL SAMPLE: 219307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.065	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.060	84	70-130	

LABORATORY CONTROL SAMPLE: 219308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	<0.010	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	<0.010	73	70-130	

LABORATORY CONTROL SAMPLE: 219309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.062	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.064	90	70-130	

MATRIX SPIKE SAMPLE: 219310

Parameter	Units	7035537001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.059	82	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.057	79	65-135	

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035822

QC Batch: 47107 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035822001

METHOD BLANK: 219987 Matrix: Water
 Associated Lab Samples: 7035822001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/20/17 18:25	
Aldrin	ug/L	<0.025	0.025	11/20/17 18:25	
Chlordane (Technical)	ug/L	<0.20	0.20	11/20/17 18:25	
Dieldrin	ug/L	<0.050	0.050	11/20/17 18:25	
Endrin	ug/L	<0.010	0.010	11/20/17 18:25	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/20/17 18:25	
Heptachlor	ug/L	<0.025	0.025	11/20/17 18:25	
Heptachlor epoxide	ug/L	<0.020	0.020	11/20/17 18:25	
Hexachlorobenzene	ug/L	<0.10	0.10	11/20/17 18:25	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/20/17 18:25	
Methoxychlor	ug/L	<0.10	0.10	11/20/17 18:25	
PCB Screen	ug/L	<0.40	0.40	11/20/17 18:25	
Toxaphene	ug/L	<1.0	1.0	11/20/17 18:25	
Decachlorobiphenyl (S)	%	79	30-150	11/20/17 18:25	
Tetrachloro-m-xylene (S)	%	110	30-150	11/20/17 18:25	

LABORATORY CONTROL SAMPLE: 219988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.40	83	70-130	
Aldrin	ug/L	.048	0.041	87	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	88	70-130	
Endrin	ug/L	.048	0.041	85	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.051	108	70-130	
Heptachlor	ug/L	.048	0.039	82	70-130	
Heptachlor epoxide	ug/L	.048	0.041	86	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	89	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	70	70-130	
Methoxychlor	ug/L	.24	0.19	81	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			84	30-150	
Tetrachloro-m-xylene (S)	%			101	30-150	

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QUALITY CONTROL DATA

Project: 334794-01
 Pace Project No.: 7035822

MATRIX SPIKE SAMPLE: 219991		7035805001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Alachlor	ug/L	<0.20	.95	0.89	94	65-135	
Aldrin	ug/L	<0.025	.095	0.10	107	65-135	
Chlordane (Technical)	ug/L	<0.20		0.70			
Dieldrin	ug/L	<0.050	.095	0.095	99	65-135	
Endrin	ug/L	<0.010	.095	0.094	99	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.11	119	65-135	
Heptachlor	ug/L	<0.025	.095	0.10	107	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.088	92	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	98	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	88	65-135	
Methoxychlor	ug/L	<0.10	.48	0.47	97	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				97	30-150	
Tetrachloro-m-xylene (S)	%				121	30-150	

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QUALITY CONTROL DATA

Project: 334784-01
 Pace Project No.: 7035822

QC Batch: 47034 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035822001

METHOD BLANK: 219535 Matrix: Water
 Associated Lab Samples: 7035822001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/22/17 11:47	
2,4-D	ug/L	<0.10	0.10	11/22/17 11:47	
Delapon	ug/L	<0.70	0.70	11/22/17 11:47	
Dicamba	ug/L	<1.0	1.0	11/22/17 11:47	
Dinoseb	ug/L	<0.20	0.20	11/22/17 11:47	
Pentachlorophenol	ug/L	<0.040	0.040	11/22/17 11:47	
Picloram	ug/L	<0.10	0.10	11/22/17 11:47	
2,4-DCAA (S)	%	104	70-130	11/22/17 11:47	

LABORATORY CONTROL SAMPLE: 219538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.22	108	70-130	
2,4-D	ug/L	.6	0.64	106	70-130	
Delapon	ug/L	2	2.1	104	70-130	
Dicamba	ug/L	.2	<1.0	91	70-130	
Dinoseb	ug/L	.4	0.36	91	70-130	
Pentachlorophenol	ug/L	.2	0.20	99	70-130	
Picloram	ug/L	.2	0.20	102	70-130	
2,4-DCAA (S)	%			115	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219537 219538

Parameter	Units	219537		219538		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7035496003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.20	0.20	98	100	65-135	2 20
2,4-D	ug/L	<0.10	.8	.6	0.60	0.58	99	97	65-135	2 20
Delapon	ug/L	<0.70	2	2	1.9	2.0	96	98	65-135	2 20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	99	105	65-135	20
Dinoseb	ug/L	<0.20	.4	.4	0.37	0.38	93	96	65-135	3 20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.18	0.18	83	83	65-135	0 20
Picloram	ug/L	<0.10	.2	.2	0.16	0.16	78	80	65-135	1 20
2,4-DCAA (S)	%						97	97	70-130	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334794-01
 Pace Project No.: 7035822

QC Batch: 48977 Analysis Method: EPA 625.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035822001

METHOD BLANK: 218311 Matrix: Water
 Associated Lab Samples: 7035822001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/27/17 19:54	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/27/17 19:54	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/27/17 19:54	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/27/17 19:54	
Butachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Metolachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Metribuzin	ug/L	<0.50	0.50	11/27/17 19:54	
Propachlor	ug/L	<0.10	0.10	11/27/17 19:54	
Simazine	ug/L	<0.070	0.070	11/27/17 19:54	
1,3-Dimethyl-2-nitrobenzene(S)	%	104	70-130	11/27/17 19:54	
Perylene-d12 (S)	%	93	70-130	11/27/17 19:54	
Pyrene-d10 (S)	%	102	70-130	11/27/17 19:54	
Triphenylphosphate (S)	%	100	70-130	11/27/17 19:54	

LABORATORY CONTROL SAMPLE: 218312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	2.1	104	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	93	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.1	106	70-130	
Butachlor	ug/L	2	1.7	87	70-130	
Metolachlor	ug/L	2	1.8	89	70-130	
Metribuzin	ug/L	2	2.0	98	70-130	
Propachlor	ug/L	2	2.1	107	70-130	
Simazine	ug/L	2	2.1	105	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			95	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			107	70-130	
Triphenylphosphate (S)	%			108	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 218434 218435

Parameter	Units	218434		218435		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Atrazine	ug/L	<0.10	2	2	2.2	1.8	109	90	70-130	19	30
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	2.0	103	102	70-130	1	30
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	1.9	1.7	95	85	70-130	11	30

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334794-01
 Pace Project No.: 7035822

Parameter	Units	219434		219435		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7035704001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.4	2.2	114	107	70-130	7	30	
Butachlor	ug/L	<0.10	2	2	2.1	1.7	103	84	70-130	21	30	
Metolachlor	ug/L	<0.10	2	2	1.9	1.9	93	93	70-130	0	30	
Metribuzin	ug/L	<0.50	2	2	2.1	2.1	103	106	70-130	2	30	
Propachlor	ug/L	<0.10	2	2	1.9	1.9	97	96	70-130	1	30	
Simazine	ug/L	<0.070	2	2	1.8	1.8	88	89	70-130	1	30	
1,3-Dimethyl-2-nitrobenzene(S)	%						95	95	70-130		30	
Perylene-d12 (S)	%						102	104	70-130		30	
Pyrene-d10 (S)	%						109	117	70-130		30	
Triphenylphosphate (S)	%						106	108	70-130		30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334794-01
Pace Project No.: 7035822

QC Batch: 406913	Analysis Method: EPA 549.2
QC Batch Method: EPA 549.2	Analysis Description: 549 HPLC Paraquat Diquat
Associated Lab Samples: 7035822001	

METHOD BLANK: 2221786
Associated Lab Samples: 7035822001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/21/17 00:51	

LABORATORY CONTROL SAMPLE: 2221787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.6	81	70-130	

LABORATORY CONTROL SAMPLE: 2221788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	78	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221789 2221790

Parameter	Units	50184178002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Diquat	ug/L	ND	2	2	1.7	1.7	85	85	70-130	0	30

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2221791 2221792

Parameter	Units	7035704001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Diquat	ug/L	<0.40	2	2	1.8	1.9	88	94	70-130	6	30

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334794-01
Pace Project No.: 7035822

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)894-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334794-01
Pace Project No.: 7035822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035822001	334794-01	EPA 504.1	46975	EPA 504.1	47037
7035822001	334794-01	EPA 505	47107	EPA 505	47189
7035822001	334794-01	EPA 515.3	47034	EPA 515.3	47219
7035822001	334794-01	EPA 531.1	47317		
7035822001	334794-01	EPA 547	407599		
7035822001	334794-01	EPA 549.2	406913	EPA 549.2	407042
7035822001	334794-01	EPA 525.2	46977	EPA 525.2	47057

REPORT OF LABORATORY ANALYSIS

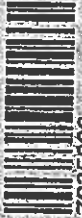
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CHAIN OF CUSTODY

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

WO#: 7035822



tical Services
 Bloomingburg, NY 12721
 557 Fax (845)733-1944

Sample Temp (C) _____
 Sample rec'd on ice? Yes
 Sample set up in 6 hr? Yes
 Properly preserved? Yes
 Within holding times? Yes
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	g/b	cm	Sample Description/Location	Containers No/type	Preservative	Analysis Required
337794	11/14/11	11:30				S-3	2 40ml G	thio	SOC Testing Table 9C Complete
							2 40ml G	thio	EPA 504
							1 250ml G	thio	EPA 505
							2 1L G	sulfite	EPA 515.3
							2 40ml G	thio	EPA 525.2
									EPA 531.1
							3 40ml G	thio	EPA 547 Glyphosate
							1 250ml G	thio	EPA 548 Endothal
							1 1L Poly	none	EPA 549 Diquat
							1 1L G	none	EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? No

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
<u>Bob Clark</u>			11/15/11	1:30	<u>Shawn Blose</u>			11/17/11	1:35



Sample Condition Upon Receipt

Client Name: _____

Project: _____

WO#: 7035822

PM: JM2 Due Date: 12/01/17
CLIENT: OGL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 12 NFO 744 03 0002 618

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 2.8

Cooler Temperature Corrected (°C): 2.9

Date/Time 9038A kits placed in freezer _____

Temp should be above freezing (0.5.0°C)

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: SB 11/15/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. SB 11/15/17
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Filtered volume received for Dissolved Metals	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-includes date/time/ID/Analysis Matrix SL/WT OIL		
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # HCG01354		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/0015 (water). For Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Regular chlorine strips lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):		

Field Data Required? Y / N

Client Notification/ Resolution: _____

Date/Time: _____

Person Contacted: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

James Murphy
PASI Long Island
2190 Technology Drive
Schenectady NY 12308

**REPORT OF
LABORATORY
ANALYSIS FOR
2,3,7,8-TCDD**

Report Summary:

Enclosed are analytical results of one drinking water sample analyzed for 2,3,7,8-TCDD content. The recoveries obtained for the labeled internal and cleanup standards in the field sample were below the target ranges and flagged "I".

Report Prepared Date:

November 27, 2017

Report No.....10411379_1613DW_DFR

Report Information:

Pace Project #: 10411379
Sample Receipt Date: 11/16/2017
Client Project #: 7035822
Client Sub PO #: L9101
State Cert #: 11647

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

November 27, 2017

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	CERT0092
Alaska	MN00064	Nebraska	NE-OS-18-08
Alaska	UST-078	Nevada	MN00064
Arizona	AZ0014	New Jersey (NE)	MN002
Arkansas	88-0680	New York (NEL)	11647
CNMI Salpan	MP0003	New hampshire	2081
California	MN00064	North Carolina	27700
Colorado	MN00064	North Carolina	530
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-L	Ohio	41244
Florida (NELAP)	E87605	Ohio VAP	CL101
Georgia (EDP)	959	Oklahoma	9507
Guam EPA	959	Oregon (ELAP)	MN200001
Hawaii	MN00064	Oregon (OREL)	MN300001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200011	Puerto Rico	MN00064
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Tennessee	TN02818
Kansas	E-10167	Texas	T104704192
Kentucky	90062	Utah (NELAP)	MN00064
Louisiana	03086	Virginia	460163
Louisiana	MN00064	Washington	C486
Maine	MN00064	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-L

REPORT OF LABORATORY ANALYSIS

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Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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10411379

 Pace Analytical
 www.paceanalytical.com

Chain of Custody

Workorder: 7035822 Workorder Name: 334794-01 Owner Received Date: 11/15/2017 Results Requested By: 12/1/2017

James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592

Pace Analytical Minnesota
 1700 Elm Street
 Suite 200
 Minneapolis, MN 55414
 Phone (612)607-1700

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N	LAB USE ONLY
1	<i>James Murphy</i>	11/17 15:30	<i>[Signature]</i>	11/16-17 1600	Y				
2									
3									
4									
5									

PS	11/14/2017 11:30	7035822001	Drinking	1	Unreserved	DIOXIN	X
1							
2							
3							
4							
5							

Cooler Temperature on Receipt 3.1, 2.2 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Condition
Upon Receipt

Client Name:

Pcsi - NY

Project #:



Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other:
 Tracking Number: 4158-3814-1734, 4158-3814-1745

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: Temp Blank? Yes No

Thermometer 151401163 151401163 Used: G87A915510D842 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 3.5, 3.2 Cooler Temp Corrected (°C): 3.1, 2.8 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: 0.4 Date and Initials of Person Examining Contents: 11/16/17

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No N/A
 Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No N/A
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Includes Date/Time/ID/Analysis Matrix: WT	12.
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: _____

Walter B...

Date: 11/16/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145698-3
Client Project/Site: 334794-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 1:07:59 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

LINKS

Review your project results through
Total Access

Have a Question?

? Ask The Expert

Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145698-3	334794-01	Water	11/14/17 11:30	11/16/17 09:15

3

5

TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Job ID: 680-145698-3

Laboratory: TestAmerica Savannah

Narrative

**Job Narrative
680-145698-3**

Comments

No additional comments.

Receipt

The samples were received on 11/16/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS Semi VOA

Method(s) 548.1, 548.1 LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-503274 and analytical batch 680-503421 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 548.1, 548.1 LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503421 recovered outside control limits for the following analytes: Endothall.

Method(s) 548.1, 548.1 LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-503274 and analytical batch 680-503692 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 548.1, 548.1 LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 680-503274 and analytical batch 680-503829 recovered outside control limits for the following analytes: Endothall.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Client Sample ID: 334794-01

Lab Sample ID: 680-145698-3

Date Collected: 11/14/17 11:30

Matrix: Water

Date Received: 11/16/17 09:15

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND	*	10.0	6.30	ug/L		11/20/17 07:45	11/20/17 19:21	1

5

TestAmerica Savannah

QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503274/18-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0	6.30	ug/L		11/20/17 08:41	11/29/17 17:43	1

Lab Sample ID: LCS 680-503274/19-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	25.0	20.73		ug/L		83	45 - 125

Lab Sample ID: LCSD 680-503274/20-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 503274

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endothall	25.0	31.09	*	ug/L		124	45 - 125	40	30

Lab Sample ID: LLCS 680-503274/21-A
Matrix: Water
Analysis Batch: 503421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503274

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	10.0	10.55		ug/L		105	60 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

GC/MS Semi VOA

Prep Batch: 503274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145698-3	334794-01	Total/NA	Water	548.1	
MB 680-503274/18-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503274/19-A	Lab Control Sample	Total/NA	Water	548.1	
LCSD 680-503274/20-A	Lab Control Sample Dup	Total/NA	Water	548.1	
LLCS 680-503274/21-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145698-3	334794-01	Total/NA	Water	548.1	503274
MB 680-503274/18-A	Method Blank	Total/NA	Water	548.1	503274
LCS 680-503274/19-A	Lab Control Sample	Total/NA	Water	548.1	503274
LCSD 680-503274/20-A	Lab Control Sample Dup	Total/NA	Water	548.1	503274
LLCS 680-503274/21-A	Lab Control Sample	Total/NA	Water	548.1	503274

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Client Sample ID: 334794-01

Lab Sample ID: 680-145698-3

Date Collected: 11/14/17 11:30

Matrix: Water

Date Received: 11/16/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503274	11/20/17 07:45	MAV	TAL SAV
Total/NA	Analysis	548.1		1			503421	11/20/17 19:21	KNW	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 6102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7868



Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-26-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87368	08-30-18
Georgia	State Program	4	E87368(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	6	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	08-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	8	30813	08-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	08-30-18
Minnesota	NELAP	6	047-999-345	12-31-17
Mississippi	State Program	4	N/A	08-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2883	10-09-18
New Jersey	NELAP	2	TN985	08-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	08-30-18
Ohio VAP	State Program	6	CL0033	07-08-19
Oklahoma	State Program	8	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	88-00585	08-30-18
Rhode Island	State Program	1	LA000268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	08-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

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Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334794-01

TestAmerica Job ID: 680-145698-3

Method	Method Description	Protocol	Laboratory
548.1	Endothal (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody



Workorder: 7035822 Workorder Name: 334794-01

Results Requested By: 12/1/2017

Report Invoice To: **James Murphy**
 Pace Analytical New York
 2189 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email: james.murphy@pacelabs.com

TA-GA

PO

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis	Comments	LAB USE ONLY
1	334794-01	11/14/2017 11:30	7035822001	Dunking	1			
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time	Cooler Temperature on Receipt °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N
1	<i>James</i>	11/15/17 16:00	<i>H</i>	11/16/17 6:15				
2								
3								

NY Samples
4/1/13

Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-145698-3

Login Number: 145698

List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math>< 6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/14/2017
Date Complete 12/11/2017
Date Printed 12/11/2017

Sample Number 334793-01
Federal ID
Description
Location S-3
Sample Point

Date Sampled 11/14/17 11:30
Sampler B. Carr
Matrix Wastewater

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached							OL
Radiologicals								
Gross Alpha	see attached			15				PG
Gross Beta	see attached							PG
Radium 226	see attached			5				PG
Radium 228	see attached			5				PG
Uranium, U	see attached	ug/L		30				PG
RADON								
Radon	see attached							PG

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217112624

Client Name: OCL Analytical Services

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334793-01	0.005	7	NSD	NSD	0.43	<0.43	<0.43	—

*NADNSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria > 10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepared by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: _____; Analyzed By: _____; Date: 11/21/2017
Marik Peysakhov



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

November 21, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334793
Pace Project No.: 30236080

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6800

CERTIFICATIONS

Project: 334793
Pace Project No.: 30238080

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0894

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42708

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 85-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
1638 Roseytown Road - Suits 2,3,4
Greensburg, PA 16601
(724)850-5600

SAMPLE SUMMARY

Project: 334793
Pace Project No.: 30236080

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236080001	334793-01	Drinking Water	11/14/17 11:30	11/15/17 09:45

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Greensburg, PA 15801
(724)850-5800

SAMPLE ANALYTE COUNT

Project: 334793
Pace Project No.: 30236080

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30236080001	334793-01	SM7500RnB-07	NJV	1

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30236080

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 21, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334793
Pace Project No.: 30236080

Sample: 334793-01 Lab ID: 30236080001 Collected: 11/14/17 11:30 Received: 11/15/17 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	14.9 ± 30.8 (52.6) C:NA T:NA	pCi/L	11/17/17 04:02	10043-92-2	

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236080

QC Batch: 279344	Analysis Method: SM7500RnB-07
QC Batch Method: SM7500RnB-07	Analysis Description: 7500Rn B Radon
Associated Lab Samples: 30236080001	

METHOD BLANK: 1371785	Matrix: Water
Associated Lab Samples: 30236080001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	1.5 ± 18.5 (32.3) C:NA T:NA	pCi/L	11/16/17 19:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 334793
Pace Project No.: 30236080

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Date: 11/21/2017 10:49 AM

Page 8 of 10

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	Grab	Matrix	Sample Description/Location	Containers No/Type	Preservative	el test	Analysis Required
23479301	11/14	11:23				S-3	1 LP	HNO3		Gamma Alpha
							1 LP	HNO3		Gamma Beta
							1 LP	HNO3		Radon 222
							1 LP	HNO3		Radon 220
							1 LP	HNO3		Radon 222
							2 40mm	none		Radon in Water
							1 LP	none		ASPECTS



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
Received By:	print	sign	date: 11/14/17	time: 1:30
Received By:	print	sign	date: 11/15/17	time: 09:45
Received By:	print	sign	date:	time:
Received By:	print	sign	date:	time:

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCI

Project # 30236080

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label	<u>ZH</u>
LIMS Login	<u>DDU</u>

Tracking #: 1Z27471K0193093214

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp °C Correction Factor: °C Final Temp: °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 11/15/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:		/		3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:		/		
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/Time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>8mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>11/15/17</u>

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

December 10, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334793
Pace Project No.: 30236487

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 334793
Pace Project No.: 30236467

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41580
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42708
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460188
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

SAMPLE SUMMARY

Project: 334793
Pace Project No.: 30236487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30236487001	334793-01	Drinking Water	11/14/17 11:30	11/17/17 09:30

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334793
Pace Project No.: 30236487

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30236487001	334793-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30236467

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

PROJECT NARRATIVE

Project: 334783
Pace Project No.: 30238487

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Sules 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30238487

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6800

PROJECT NARRATIVE

Project: 334793
Pace Project No.: 30238487

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 10, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236487

Sample: 334793-01 Lab ID: 30236487001 Collected: 11/14/17 11:30 Received: 11/17/17 09:30 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.330 ± 0.508 (1.08) C:NA T:NA	pCi/L	11/28/17 18:43	12587-46-1	
Gross Beta	EPA 900.0	0.964 ± 0.605 (1.19) C:NA T:NA	pCi/L	11/28/17 18:43	12587-47-2	
Radium-226	EPA 903.1	0.364 ± 0.291 (0.164) C:NA T:88%	pCi/L	12/07/17 13:44	13982-63-3	
Radium-228	EPA 904.0	0.215 ± 0.452 (1.00) C:71% T:69%	pCi/L	12/01/17 15:01	15262-20-1	
Total Uranium	ASTM D5174-97	0.103 ± 0.005 (0.193) C:NA T:NA	ug/L	12/10/17 13:02	7440-61-1	

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Pace Analytical Services, LLC
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 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236487

QC Batch: 280087	Analysis Method: ASTM D5174-97
QC Batch Method: ASTM D5174-97	Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 30236487001	

METHOD BLANK: 1375646	Matrix: Water
Associated Lab Samples: 30236487001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.124 ± 0.008 (0.193) C:NA T:NA	ug/L	12/07/17 17:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 334793
 Pace Project No.: 30236467

QC Batch: 279865	Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0	Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30236487001	

METHOD BLANK: 1374699	Matrix: Water
Associated Lab Samples: 30236487001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.639 ± 0.793 (1.64) C:NA T:NA	pCi/L	11/28/17 12:51	
Gross Beta	0.311 ± 0.878 (2.02) C:NA T:NA	pCi/L	11/28/17 12:51	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334793
Pace Project No.: 30238487

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

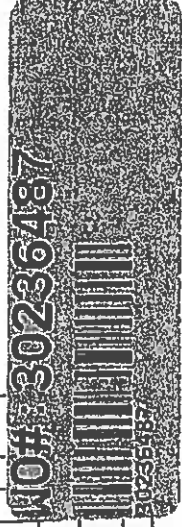
Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	Grab	Matrix	Sample Description/Location	Containers Not/Type	Preservative	Analysis Required
234793-01	11/19/11	11:20				S-3	1 LP	HNO3	Gross Alpha
							1 LP	HNO3	Gross Beta
							1 LP	HNO3	Radium 226
							1 LP	HNO3	Radium 228
							1 LP	HNO3	Uranium
							2 40mm	none	ASBESTOS
							1 LP	none	ASBESTOS



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid?

Received By:	print	sign	date:	time:
Received By:			11/17/11	1:30
Received By:			11/15/11	9:43
Received By:				
Received By:				

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL Ana.

Project # 30236487

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label <u>AM</u>
LIMS Login <u>AM</u>

Tracking #: 1Z MTO 7K4 03 1577 4042

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue (None)

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: AM 11-17-17

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation.	X			16.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			<u>PHLZ</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>AM</u> Date/time of preservation _____
				Lot # of added preservative _____
Headspace in VOA Vials (>8mm):			X	17.
Trip Blank Present:		X		18.
Trip Blank Custody Seals Present		X		
Rad Aqueous Samples Screened > 0.5 mrem/hr	X			Initial when completed: <u>AM</u> Date: <u>11-17-17</u>

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: AM 11-17-17 Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

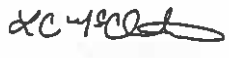
KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Received 11/2/2017
Date Complete 11/13/2017
Date Printed 11/13/2017

Sample Number 334406-01
Federal ID
Description
Location W-1
Sample Point

Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
Coliform PA								
Total Coliform(ONPG)	Absence	per 100ml	SM20 9223B-97 C			11/02/17 16:30	AM	
E.coli (ONPG)	Absence	per 100ml	SM20 9223B-97 C <small>coliform</small>			11/02/17 16:30	AM	

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Received 11/2/2017
Date Complete 11/13/2017
Date Printed 11/13/2017

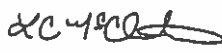
Sample Number 334406-02
Federal ID
Description
Location W-1
Sample Point

Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
CHLORIDE								
Chloride	4.91	mg/L	SM20 4500CL-C-97	250		11/07/17 0:00	JR	
CORR								
Alkalinity as CaCO3	37.5	mg/L	SM20 2320B-97			11/07/17 0:00	AM	
Hardness as CaCO3, Calcium	28.0	mg/L	SM20 3500CaB-97			11/08/17 11:30	AM	
pH	6.85		SM20 2330H+B			11/02/17 15:15	JR	H3
Corrosivity Index (LI)	-2.02		SM20 2330			11/10/17 0:00	AM	
FL								
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/07/17 0:00	JR	
Nitrate and Nitrite								
Nitrate/Nitrite as N	0.275	mg/L	La10107041C	10.0		11/03/17 10:20	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B	1.0		11/02/17 15:10	JR	
ODOR								
Odor at 60C	none		SM20 2150B-97	3		11/02/17 15:15	JR	
TDS								
Solids, Dissolved Total	40.0	mg/L	SM20 2540C-97	500		11/09/17 15:40	AM	

Qualifiers

H3 = This analysis is no longer ELAP certified.

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Received 11/2/2017
Date Complete 11/29/2017
Date Printed 11/29/2017

Sample Number 334407-01
Federal ID
Description
Location W-1
Sample Point

Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
524.2 NY VOC's								
1,1,1,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,1,1-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,1,2,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,1,2-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,1-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,1-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,1-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2,3-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2,3-Trichloropropane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2,4-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2,4-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,3,5-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,3-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,3-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
1,4-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
2,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
2-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
4-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Benzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Bromobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Bromochloromethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Bromomethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Carbon tetrachloride	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Received 11/2/2017
Date Complete 11/29/2017
Date Printed 11/29/2017

Sample Number 334407-01
Federal ID
Description
Location W-1
Sample Point

Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
524.2 NY VOC's								
Chlorobenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Chloroethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Chloromethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Dibromomethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Dichlorodifluoromethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Ethylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Hexachlorobutadiene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Isopropylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Methyl tert-butyl ether	<0.50	ug/L	EPA 524.2	10		11/06/17 3:30	EL	U
Methylene chloride	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Styrene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Tetrachloroethene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Toluene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Trichloroethene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Trichlorofluoromethane	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
Vinyl chloride	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
cis-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
cis-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
n-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
n-Propylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
p-Isopropyltoluene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
sec-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
tert-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
trans-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
trans-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
m-Xylene & p-Xylene	<1.0	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U

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Date Sampled 11/02/17 13:30
 Sampler B. Carr
 Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
524.2 NY VOC's								
o-Xylene	<0.50	ug/L	EPA 524.2	5		11/06/17 3:30	EL	U
524.2 THMs								
Bromodichloromethane	<0.50	ug/L	EPA 524.2			11/06/17 2:26	EL	U
Bromoform	<0.50	ug/L	EPA 524.2			11/06/17 2:26	EL	U
Chloroform	<0.50	ug/L	EPA 524.2			11/06/17 2:26	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/06/17 2:26	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/06/17 2:26	EL	U
552.2 HAAs								
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/10/17 8:00	11/10/17 3:11	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/10/17 8:00	11/10/17 3:11	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/10/17 8:00	11/10/17 3:11	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/10/17 8:00	11/10/17 3:11	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/10/17 8:00	11/10/17 3:11	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/10/17 8:00	11/10/17 3:11	EL	U
AG								
Silver, Ag	<0.0010	mg/L	EPA 200.8	0.10	11/06/17 5:30	11/10/17 6:55	EL	U
AS								
Arsenic, As	<0.0014	mg/L	EPA 200.8	0.01	11/06/17 3:03	11/06/17 4:51	EL	U
BA								
Barium, Ba	0.019	mg/L	EPA 200.8	2.00	11/06/17 3:03	11/06/17 4:51	EL	
BE								
Beryllium, Be	<0.00030	mg/L	EPA 200.8	0.004	11/06/17 3:03	11/06/17 4:51	EL	U

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Sample Number 334407-01
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 Description
 Location W-1
 Sample Point

Date Sampled 11/02/17 13:30
 Sampler B. Carr
 Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
CD								
Cadmium, Cd	<0.0010	mg/L	EPA 200.8	0.005	11/06/17 3:03	11/06/17 4:51	EL	U
CR								
Chromium, Cr	<0.0070	mg/L	EPA 200.8	0.10	11/06/17 3:03	11/06/17 4:51	EL	U
CU								
Copper, Cu	0.13	mg/L	EPA 200.8	1.3	11/06/17 3:03	11/06/17 4:51	EL	
CYANIDE								
Cyanide, Total	<0.0050	mg/L	SM18 4500-CN E	0.2	11/08/17 9:00	11/08/17 4:35	EL	U
FE								
Iron, Fe	0.61	mg/L	EPA 200.7	0.30	11/06/17 3:03	11/06/17 6:24	EL	g
HG								
Mercury, Hg	<0.00020	mg/L	EPA 245.1	0.002	11/07/17 9:30	11/07/17 4:11	EL	U
MN								
Manganese, Mn	<0.010	mg/L	EPA 200.7	0.3	11/06/17 3:03	11/06/17 6:24	EL	U
NA								
Sodium, Na	4.9	mg/L	EPA 200.7		11/06/17 3:03	11/06/17 6:24	EL	
NI								
Nickel, Ni	<0.00050	mg/L	EPA 200.8		11/06/17 3:03	11/06/17 4:51	EL	U
PB								
Lead, Pb	<0.0010	mg/L	EPA 200.8	0.015	11/06/17 3:03	11/06/17 4:51	EL	U
SB								
Antimony, Sb	<0.00040	mg/L	EPA 200.8	0.006	11/06/17 3:03	11/06/17 4:51	EL	U

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Project
Date Received 11/2/2017
Date Complete 11/29/2017
Date Printed 11/29/2017

Sample Number 334407-01
Federal ID
Description
Location W-1
Sample Point


Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
SE								
Selenium, Se	<0.0020	mg/L	EPA 200.8	0.05	11/06/17 3:03	11/06/17 4:51	EL	U
SULFATE								
Sulfate	6.0	mg/L	EPA 300.0	250		11/03/17 9:00	EL	
TL								
Thallium, Tl	<0.00030	mg/L	EPA 200.8	0.002	11/06/17 3:03	11/06/17 4:51	EL	U
ZN								
Zinc, Zn	0.037	mg/L	EPA 200.8	5.0	11/06/17 3:03	11/06/17 4:51	EL	

EL = Analysis by Envirotest Laboratories #10142

Qualifiers

- g = Result fails applicable drinking water standards
- U = The analyte was analyzed for but not detected at or above the stated limit.

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

OCL Analytical Services

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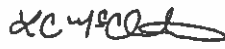
Project
Date Received 11/2/2017
Date Complete 11/22/2017
Date Printed 11/27/2017

Sample Number 334405-01
Federal ID
Description
Location W-1
Sample Point

Date Sampled 11/02/17 13:30
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached							OL
Radiologicals								
Gross Alpha	see attached			15				PG
Gross Beta	see attached							PG
Radium 226	see attached			5				PG
Radium 228	see attached			5				PG
Uranium, U	see attached	ug/L		30				PG
RADON								
Radon	see attached							PG

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 07, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334405
Pace Project No.: 30234927

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334406
Pace Project No.: 30234927

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4088

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42708

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 480198

Washington Certification #: C888

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9984C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
1638 Roseydown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 334405
Pace Project No.: 30234927

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30234927001	334405-01	Drinking Water	11/02/17 13:30	11/03/17 09:05

REPORT OF LABORATORY ANALYSIS

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1638 Rosoytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

SAMPLE ANALYTE COUNT

Project: 334406
Pace Project No.: 30234827

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30234927001	334406-01	SM7500RnB-07	NEG	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334405
Pace Project No.: 30234927

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 07, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334405
Pace Project No.: 30234927

Sample: 334405-01 Lab ID: 30234927001 Collected: 11/02/17 13:30 Received: 11/03/17 09:05 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Comments: • Time of collection on COC does not match time on bottles.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	3,940 ± 130 (69.2) C:NA T:NA	pCi/L	11/06/17 16:24	10043-92-2	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 334405
Pace Project No.: 30234927

QC Batch:	277891	Analysis Method:	SM7500RnB-07
QC Batch Method:	SM7500RnB-07	Analysis Description:	7500Rn B Radon
Associated Lab Samples:	30234927001		

METHOD BLANK:	1365392	Matrix:	Water
Associated Lab Samples:	30234927001		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	5.4 ± 19.0 (32.8) C:NA T:NA	pCi/L	11/06/17 13:37	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 334405
Pace Project No.: 30234927

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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30234927-

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1844

CHAIN OF CUSTODY

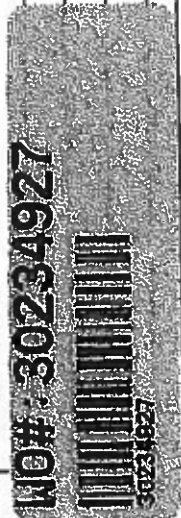
Report to: Name KCE
Address _____
City, State, Zip _____
Phone _____

Bill to: KCE

Sample Temp (c) 11.5
Sample rec'd on ice? LS
Sample set up in 6 hr? LS
Properly preserved? LS
Within holding times? LS
Reviewed by LS

Samples should be brought to the lab ON ICE with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Table ID	Analysis Required
234054	11/2	1:30				W-7	1 LP	HNOS		Trace Metals 001
							1 LP	HNOS		Trace Metals
							1 LP	HNOS		Radon-226
							1 LP	HNOS		Radon-228
							1 LP	HNOS		Uranium
							2 40mm	none		Radon in Water
							1 LP	none		ASBESTOS



Comments/Special Instructions: *Brought in on Thursday with knowledge it's past hold time

Rush Requested? _____ Prepaid? NO

Client Code: _____

Sampled By:	print	date: 11/17	print	date: 11/21/17
	sign	time: 2:30P		time: 1:30
Relinquished By:	print	date: 11/21/17	print	date: 11/21/17
	sign	time: 1:30		time: 1:30
Relinquished By:	print	date: _____	print	date: _____
	sign	time: _____		time: _____
Relinquished By:	print	date: _____	print	date: _____
	sign	time: _____		time: _____

Received By: _____
Received By: ALYCE R. MURPHY
Received By: _____
Received By: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OC/L

Project # 30234027

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z27Y780199404411

Label	<u>EA</u>
LIMS Login	<u>AKM</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AKM 11/3/17

Comments:

	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/	/		5. Time on vials is 1320.
-Includes date/time/ID Matrix:			<u>WT AKM 11/3/17</u>	
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:	/			8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>AKM</u> Date/Time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr			/	Initial when completed: <u>AKM</u> Date: <u>11/3/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 22, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334405
Pace Project No.: 30235137

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334405
Pace Project No.: 30235137

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41690
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0894
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140098
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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1638 Rosytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 334405
Pace Project No.: 30235137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235137001	334405-01	Drinking Water	11/02/17 13:20	11/06/17 08:45

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Greensburg, PA 15801
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334405
Pace Project No.: 30235137

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235137001	334405-01	EPA 900.0	NEG	2
		EPA 903.1	KAC	1
		EPA 904.0	JLW	1
		ASTM D6174-97	RMK	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334405
Pace Project No.: 30235137

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: November 22, 2017

General Information:
1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Times:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334405
Pace Project No.: 30235137

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: November 22, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334405
Pace Project No.: 30235137

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: November 22, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334405
Pace Project No.: 30235137

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: November 22, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334405
 Pace Project No.: 30235137

Sample: 334405-01 Lab ID: 30235137001 Collected: 11/02/17 13:20 Received: 11/08/17 09:46 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.049 ± 0.681 (1.70) C:NA T:NA	pCi/L	11/15/17 08:38	12587-46-1	
Gross Beta	EPA 900.0	0.791 ± 0.775 (1.84) C:NA T:NA	pCi/L	11/15/17 08:38	12587-47-2	
Radium-226	EPA 903.1	0.706 ± 0.479 (0.619) C:NA T:85%	pCi/L	11/16/17 13:08	13982-83-3	
Radium-228	EPA 904.0	0.309 ± 0.382 (0.839) C:73% T:74%	pCi/L	11/14/17 14:53	15282-20-1	
Total Uranium	ASTM D5174-97	0.020 ± 0.010 (0.193) C:NA T:NA	ug/L	11/21/17 17:46	7440-81-1	

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 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334405
 Pace Project No.: 30235137

QC Batch: 278322	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30235137001	

METHOD BLANK: 1367131 Matrix: Water
 Associated Lab Samples: 30235137001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.251 ± 0.303 (0.823) C:NA T:90%	pCi/L	11/16/17 12:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334405
Pace Project No.: 30235137

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty; SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Car - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

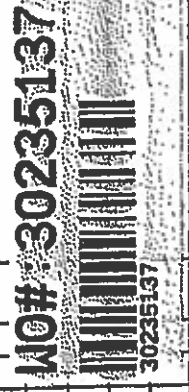
Report to: Name KOE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KOE

Sample Temp (c) 11.5
 Sample rec'd on ice? KS
 Sample set up in 6 hr? KS
 Properly preserved? KS
 Within holding times? KS
 Reviewed by KS

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCCL Number	Collection Date Time	comp	grab	matrix	Sample Description/Location	Containers Moltype	Preservative	Q test	Analysis Required
3344511/2	1-20				W-1	1 LP	HNO3		Gross Alpha
						1 LP	HNO3		Gross Beta
						1 LP	HNO3		Radium 226
						1 LP	HNO3		Radium 228
						1 LP	HNO3		Uranium
						2-40mm	none		Radon in Matrix
						REF	none		ACRESIOS



Comments/Special Instructions: *Brought in on Thursday with knowledge its past hold time

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
<u>JOE GARRA</u>			11/17	15:30	<u>[Signature]</u>			11/21	11:21

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: DBL

Project # 30235137

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1727Y7803949504

Label	<u>APL</u>
LIMS Login	<u>DBL</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used UA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp UA °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and initials of person examining contents: 11-6-17 CAC

Comments:	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Includes date/time/ID Matrix: <u>WJ</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>PHL</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>CAC</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Trip Blank Custody Seats Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad Aqueous Samples Screened > 0.5 mrem/hr	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>CAC</u> Date: <u>11-6-17</u>

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

AmeriSci Job #: 217111414
 Client Name: OCL Analytical Services

Table I
 Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	334405-01	0.01	7	NSD	NSD	0.21	<0.21	<0.21	—

W-1

*NAD/NSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepared by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: _____ ; Analyzed By: _____ Date: 11/13/2017
 Aleksandr Barenholtz

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334505-01			W-2		Drinking Water			
Total Coliform(ONPG)	Absence	per 100ml	SM20 9223B-97 C			11/06/17 15:00	AM	o
E.coli (ONPG)	Absence	per 100ml	SM20 9223B-97 C colibact			11/06/17 15:00	AM	o
334505-02			W-2		Drinking Water			
Chloride	<4.00	mg/L	SM20 4500CL-C-9 7	250		11/07/17 0:00	JR	
Color (apparent)	<5.0		SM20 2120B-01	15		11/06/17 15:00	JR	
Alkalinity as CaCO3	77.5	mg/L	SM20 2320B-97			11/07/17 0:00	AM	
Hardness as CaCO3, Calcium	50.0	mg/L	SM20 3500CaB-97			11/08/17 11:30	AM	
pH	6.99		SM20 2330H+B			11/06/17 14:50	JR	H3
Corrosivity Index (LI)	-1.35		SM20 2330			11/10/17 0:00	AM	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/07/17 0:00	JR	
Nitrate/Nitrite as N	0.0929	mg/L	La10107041C	10.0		11/08/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B- nn	1.0		11/07/17 10:45	JR	
Odor at 60C	None		SM20 2150B-97	3		11/06/17 14:55	JR	OD
Solids, Dissolved Total	92.0	mg/L	SM20 2540C-97	500		11/09/17 15:40	AM	
Turbidity	0.103	ntu	SM20 2130B-01	1		11/06/17 16:05	JR	
334505-03			W-2		Drinking Water			
1,1,1,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,1,1-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,1,2,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,1,2-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,1-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,1-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,1-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/6/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334505-03								Drinking Water
			W-2					
1,2,3-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,2,3-Trichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,2,4-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,2,4-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,2-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,2-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,3,5-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,3-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,3-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
1,4-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
2,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
2-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
4-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Benzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Bromobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Bromochloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Bromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Carbon tetrachloride	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Chlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Chloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Chloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Dibromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Dichlorodifluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Ethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Hexachlorobutadiene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Isopropylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Methyl tert-butyl ether	<0.50	ug/L	EPA 524.2	10		11/08/17 9:47	EL	U
Methylene chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Styrene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334505-03				W-2				Drinking Water
Tetrachloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Toluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Trichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Trichlorofluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Vinyl chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
cis-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
cis-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
n-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
n-Propylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
p-Isopropyltoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
sec-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
tert-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
trans-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
trans-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
m-Xylene & p-Xylene	<1.0	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
o-Xylene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:47	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2			11/08/17 9:47	EL	U
Bromoform	<0.50	ug/L	EPA 524.2			11/08/17 9:47	EL	U
Chloroform	<0.50	ug/L	EPA 524.2			11/08/17 9:47	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/08/17 9:47	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/08/17 9:47	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:44	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:44	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:44	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:44	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:44	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/14/17 9:30	11/14/17 4:44	EL	U
Silver, Ag	<0.0010	mg/L	EPA 200.8	0.10	11/10/17 11:14	11/13/17 5:49	EL	U

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Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334505-03								Drinking Water
			W-2					
Copper, Cu	<0.010	mg/L	EPA 200.8	1.3	11/10/17 8:54	11/10/17 6:29	EL	U
Cyanide, Total	<0.0050	mg/L	SM18 4500-CN E	0.2	11/13/17 10:28	11/15/17 10:45	EL	U
Iron, Fe	<0.060	mg/L	EPA 200.7	0.30	11/10/17 8:54	11/10/17 3:06	EL	U
Arsenic, As	0.0032	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	
Barium, Ba	0.16	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	
Cadmium, Cd	<0.0010	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1		11/15/17 10:30	11/15/17 3:46	EL	U
Selenium, Se	<0.0020	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Antimony, Sb	<0.00040	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Beryllium, Be	<0.00030	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Nickel, Ni	<0.00050	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Thallium, Tl	<0.00030	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:29	EL	U
Manganese, Mn	<0.010	mg/L	EPA 200.7	0.3	11/10/17 8:54	11/10/17 3:06	EL	U
Sodium, Na	13	mg/L	EPA 200.7		11/10/17 8:54	11/10/17 3:06	EL	
Lead, Pb	<0.0010	mg/L	EPA 200.8	0.015	11/10/17 8:54	11/10/17 6:29	EL	U
Sulfate	5.9	mg/L	EPA 300.0	250		11/08/17 7:43	EL	
Zinc, Zn	<0.020	mg/L	EPA 200.7	5.0	11/10/17 8:54	11/10/17 3:06	EL	U

EL = Analysis by Envirotest Laboratories #10142

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

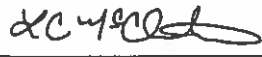
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2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/6/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
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Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- H3 = This analysis is no longer ELAP certified
- o = Sample not received on ice.
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL Analytical Services

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Project
Date Received 11/6/2017
Date Complete 12/6/2017
Date Printed 12/6/2017

Sample Number 334506-01
Federal ID
Description
Location W-2
Sample Point

Date Sampled 11/06/17 11:00
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
676 Broad Hollow Road
Melville, NY 11747
(631)694-3040

December 05, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334506-01
Pace Project No.: 7035392

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Dioxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

547, 548 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager



REPORT OF LABORATORY ANALYSIS

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December 05, 2017
Page 2

Enclosures



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CERTIFICATIONS

Project: 334508-01
Pace Project No.: 7035392

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 480165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Melville, NY 11747
(631)894-3040

SAMPLE SUMMARY

Project: 334506-01
Pace Project No.: 7035392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035392001	334506-01	Drinking Water	11/06/17 11:00	11/09/17 10:05

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SAMPLE ANALYTE COUNT

Project: 334506-01
Pace Project No.: 7035392

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035392001	334506-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV

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 (831)894-3040

ANALYTICAL RESULTS

Project: 334508-01
 Pace Project No.: 7035392

Sample: 334508-01 Lab ID: 7035392001 Collected: 11/06/17 11:00 Received: 11/09/17 10:05 Matrix: Drinking Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 10:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 10:45	106-93-4	
505 GCS Pesticides/PCBs Analytical Method: EPA 505 Preparation Method: EPA 505									
Alachlor	<0.20	ug/L	0.20		1	11/13/17 13:21	11/14/17 00:57	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/13/17 13:21	11/14/17 00:57	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/13/17 13:21	11/14/17 00:57	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/13/17 13:21	11/14/17 00:57	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/13/17 13:21	11/14/17 00:57	80-57-1	
Endrin	<0.010	ug/L	0.010		1	11/13/17 13:21	11/14/17 00:57	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/13/17 13:21	11/14/17 00:57	76-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/13/17 13:21	11/14/17 00:57	1024-57-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:57	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:57	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:57	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/13/17 13:21	11/14/17 00:57		
Toxaphene	<1.0	ug/L	1.0		1	11/13/17 13:21	11/14/17 00:57	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	30-150		1	11/13/17 13:21	11/14/17 00:57	877-09-8	
Decachlorobiphenyl (S)	87	%	30-150		1	11/13/17 13:21	11/14/17 00:57	2051-24-3	
515.3 Chlorinated Herbicides Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/15/17 11:52	11/17/17 21:32	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/15/17 11:52	11/17/17 21:32	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/15/17 11:52	11/17/17 21:32	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/15/17 11:52	11/17/17 21:32	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/15/17 11:52	11/17/17 21:32	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/15/17 11:52	11/17/17 21:32	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/15/17 11:52	11/17/17 21:32	93-72-1	
Surrogates									
2,4-DCAA (S)	83	%	70-130		1	11/15/17 11:52	11/17/17 21:32	19719-28-9	
531.1 HPLC Carbamates Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/19/17 03:32	118-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/19/17 03:32	1646-88-4	L1
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/19/17 03:32	1646-87-3	L1
Carbofuran	<0.90	ug/L	0.90		1		11/19/17 03:32	1563-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/19/17 03:32	16655-82-6	L1
Methomyl	<1.0	ug/L	1.0		1		11/19/17 03:32	16752-77-5	L1
Oxamyl	<1.0	ug/L	1.0		1		11/19/17 03:32	23135-22-0	L1
Carbaryl	<1.0	ug/L	1.0		1		11/19/17 03:32	63-25-2	
547 HPLC Glyphosate Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0		700		11/22/17 19:10		H1

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ANALYTICAL RESULTS

Project: 334506-01
 Pace Project No.: 7035392

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 334506-01 Lab ID: 7035392001 Collected: 11/08/17 11:00 Received: 11/09/17 10:05 Matrix: Drinking Water									
Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Atrazine	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 17:47	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/13/17 14:14	11/15/17 17:47	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 17:47	23184-66-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/13/17 14:14	11/15/17 17:47	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/13/17 14:14	11/15/17 17:47	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 17:47	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/13/17 14:14	11/15/17 17:47	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/13/17 14:14	11/15/17 17:47	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/13/17 14:14	11/15/17 17:47	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	108	%	70-130		1	11/13/17 14:14	11/15/17 17:47	81209	
Perylene-d12 (S)	98	%	70-130		1	11/13/17 14:14	11/15/17 17:47	1620983	
Triphenylphosphate (S)	82	%	70-130		1	11/13/17 14:14	11/15/17 17:47	115-88-6	
Pyrene-d10 (S)	100	%	70-130		1	11/13/17 14:14	11/15/17 17:47		

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QUALITY CONTROL DATA

Project: 334508-01
 Pace Project No.: 7035392

QC Batch: 47018 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7035392001

METHOD BLANK: 219450 Matrix: Water
 Associated Lab Samples: 7035392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/18/17 16:04	
Aldicarb	ug/L	<0.50	0.50	11/18/17 16:04	
Aldicarb sulfone	ug/L	<0.80	0.80	11/18/17 16:04	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/18/17 16:04	
Carbaryl	ug/L	<1.0	1.0	11/18/17 16:04	
Carbofuran	ug/L	<0.90	0.90	11/18/17 16:04	
Methomyl	ug/L	<1.0	1.0	11/18/17 16:04	
Oxamyl	ug/L	<1.0	1.0	11/18/17 16:04	

LABORATORY CONTROL SAMPLE: 219451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.6	123	80-120 L1	
Aldicarb	ug/L	3.8	4.0	106	80-120	
Aldicarb sulfone	ug/L	3.8	4.8	127	80-120 L1	
Aldicarb sulfoxide	ug/L	3.8	5.0	133	80-120 L1	
Carbaryl	ug/L	3.8	4.4	118	80-120	
Carbofuran	ug/L	3.8	4.5	120	80-120	
Methomyl	ug/L	3.8	5.1	135	80-120 L1	
Oxamyl	ug/L	3.8	4.9	130	80-120 L1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219452 219453

Parameter	Units	219452		219453		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		7035460005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.0	4.3	107	115	65-135	7	20
Aldicarb	ug/L	<0.50	3.8	3.8	4.1	4.1	110	110	65-135	0	20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	4.4	4.4	118	117	65-135	0	20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	4.7	4.7	125	125	65-135	1	20
Carbaryl	ug/L	<1.0	3.8	3.8	4.0	4.1	105	110	65-135	4	20
Carbofuran	ug/L	<0.90	3.8	3.8	4.5	4.9	119	131	65-135	10	20
Methomyl	ug/L	<1.0	3.8	3.8	4.1	4.6	110	122	65-135	10	20
Oxamyl	ug/L	<1.0	3.8	3.8	4.5	4.5	119	120	65-135	1	20

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 575 Broad Hollow Road
 Melville, NY 11747
 (831)694-3040

QUALITY CONTROL DATA

Project: 334508-01
 Pace Project No.: 7035392

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035392001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7035392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001		MSD		MS		MSD		% Rec Limits	Max		Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD		RPD		
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1	30	H1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001		MSD		MS		MSD		% Rec Limits	Max		Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD		RPD		
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	80-120	2	30		

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QUALITY CONTROL DATA

Project: 334508-01
 Pace Project No.: 7035392

QC Batch: 46160 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035392001

METHOD BLANK: 215816 Matrix: Water
 Associated Lab Samples: 7035392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/11/17 07:55	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/11/17 07:55	

LABORATORY CONTROL SAMPLE: 215817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.069	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.086	120	70-130	

LABORATORY CONTROL SAMPLE: 215818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	0.011	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	0.011	112	70-130	

MATRIX SPIKE SAMPLE: 216409

Parameter	Units	7035390001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.069	97	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.078	109	65-135	

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QUALITY CONTROL DATA

Project: 334506-01
 Pace Project No.: 7035392

QC Batch: 48262 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035392001

METHOD BLANK: 218246 Matrix: Water
 Associated Lab Samples: 7035392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.20	0.20	11/13/17 17:16	
Aldrin	ug/L	<0.025	0.025	11/13/17 17:16	
Chlordane (Technical)	ug/L	<0.20	0.20	11/13/17 17:16	
Dieldrin	ug/L	<0.050	0.050	11/13/17 17:16	
Endrin	ug/L	<0.010	0.010	11/13/17 17:16	
gamma-BHC (Lindane)	ug/L	<0.020	0.020	11/13/17 17:16	
Heptachlor	ug/L	<0.025	0.025	11/13/17 17:16	
Heptachlor epoxide	ug/L	<0.020	0.020	11/13/17 17:16	
Hexachlorobenzene	ug/L	<0.10	0.10	11/13/17 17:16	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/13/17 17:16	
Methoxychlor	ug/L	<0.10	0.10	11/13/17 17:16	
PCB Screen	ug/L	<0.40	0.40	11/13/17 17:16	
Toxaphene	ug/L	<1.0	1.0	11/13/17 17:16	
Decachlorobiphenyl (S)	%	113	30-150	11/13/17 17:16	
Tetrachloro-m-xylene (S)	%	107	30-150	11/13/17 17:16	

LABORATORY CONTROL SAMPLE: 218246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	.48	0.48	101	70-130	
Aldrin	ug/L	.048	0.047	99	70-130	
Chlordane (Technical)	ug/L		<0.20			
Dieldrin	ug/L	.048	<0.050	93	70-130	
Endrin	ug/L	.048	0.047	98	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.058	122	70-130	
Heptachlor	ug/L	.048	0.049	102	70-130	
Heptachlor epoxide	ug/L	.048	0.045	95	70-130	
Hexachlorobenzene	ug/L	.048	<0.10	97	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	94	70-130	
Methoxychlor	ug/L	.24	0.22	92	70-130	
PCB Screen	ug/L		<0.40			
Toxaphene	ug/L		<1.0			
Decachlorobiphenyl (S)	%			102	30-150	
Tetrachloro-m-xylene (S)	%			104	30-150	

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QUALITY CONTROL DATA

Project: 334506-01
 Pace Project No.: 7035392

MATRIX SPIKE SAMPLE:		218322					
Parameter	Units	7035322001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	<0.20	.95	0.84	88	65-135	
Aldrin	ug/L	<0.025	.095	0.079	83	65-135	
Chlordane (Technical)	ug/L	<0.20		<0.20			
Dieldrin	ug/L	<0.050	.095	0.081	85	65-135	
Endrin	ug/L	<0.010	.095	0.088	88	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.10	108	65-135	
Heptachlor	ug/L	<0.025	.095	0.087	88	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.078	82	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	83	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	90	65-135	
Methoxychlor	ug/L	<0.10	.48	0.42	87	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				89	30-150	
Tetrachloro-m-xylene (S)	%				98	30-150	

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 (631)894-3040

QUALITY CONTROL DATA

Project: 334506-01
 Pace Project No.: 7035392

QC Batch: 46614 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035392001

METHOD BLANK: 217842 Matrix: Water
 Associated Lab Samples: 7035392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/17/17 18:08	
2,4-D	ug/L	<0.10	0.10	11/17/17 18:08	
Dalapon	ug/L	<0.70	0.70	11/17/17 18:08	
Dicamba	ug/L	<1.0	1.0	11/17/17 18:08	
Dinoseb	ug/L	<0.20	0.20	11/17/17 18:08	
Pentachlorophenol	ug/L	<0.040	0.040	11/17/17 18:08	
Picloram	ug/L	<0.10	0.10	11/17/17 18:08	
2,4-DCAA (S)	%	102	70-130	11/17/17 18:08	

LABORATORY CONTROL SAMPLE: 217843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.22	110	70-130	
2,4-D	ug/L	.6	0.61	101	70-130	
Dalapon	ug/L	2	1.9	96	70-130	
Dicamba	ug/L	.2	<1.0	94	70-130	
Dinoseb	ug/L	.4	0.43	108	70-130	
Pentachlorophenol	ug/L	.2	0.19	93	70-130	
Picloram	ug/L	.2	0.17	84	70-130	
2,4-DCAA (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217893 217894

Parameter	Units	217893		217894		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		7035458003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.19	0.19	96	96	85-135	1	20
2,4-D	ug/L	<0.10	.6	.6	0.52	0.61	86	100	85-135	15	20
Dalapon	ug/L	<0.70	2	2	1.9	2.0	95	99	65-135	4	20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	80	97	65-135		20
Dinoseb	ug/L	<0.20	.4	.4	0.38	0.39	94	98	65-135	4	20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.18	0.18	86	87	65-135	2	20
Picloram	ug/L	<0.10	.2	.2	0.19	0.16	76	61	65-135	16	20 M1
2,4-DCAA (S)	%						98	98	70-130		20

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QUALITY CONTROL DATA

Project: 334508-01
 Pace Project No.: 7035392

QC Batch: 46235 Analysis Method: EPA 525.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035392001

METHOD BLANK: 216192 Matrix: Water
 Associated Lab Samples: 7035392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alrazine	ug/L	<0.10	0.10	11/15/17 12:47	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/15/17 12:47	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/15/17 12:47	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/15/17 12:47	
Butachlor	ug/L	<0.10	0.10	11/15/17 12:47	
Metolachlor	ug/L	<0.10	0.10	11/15/17 12:47	
Metribuzin	ug/L	<0.50	0.50	11/15/17 12:47	
Propachlor	ug/L	<0.10	0.10	11/15/17 12:47	
Simazine	ug/L	<0.070	0.070	11/15/17 12:47	
1,3-Dimethyl-2-nitrobenzene(S)	%	114	70-130	11/15/17 12:47	
Perylene-d12 (S)	%	95	70-130	11/15/17 12:47	
Pyrene-d10 (S)	%	98	70-130	11/15/17 12:47	
Triphenylphosphate (S)	%	79	70-130	11/15/17 12:47	

LABORATORY CONTROL SAMPLE: 216193

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alrazine	ug/L	2	2.0	98	70-130	
Benzo(a)pyrene	ug/L	2	2.0	101	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.8	92	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.3	114	70-130	
Butachlor	ug/L	2	1.7	85	70-130	
Metolachlor	ug/L	2	1.8	90	70-130	
Metribuzin	ug/L	2	1.8	92	70-130	
Propachlor	ug/L	2	1.9	97	70-130	
Simazine	ug/L	2	2.2	109	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			104	70-130	
Perylene-d12 (S)	%			96	70-130	
Pyrene-d10 (S)	%			98	70-130	
Triphenylphosphate (S)	%			88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216403 216404

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		7035391001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Alrazine	ug/L	<0.10	2	2	1.5	1.6	73	82	70-130	13	30	
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	2.2	104	110	70-130	6	30	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	2.4	2.4	122	121	70-130	1	30	

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QUALITY CONTROL DATA

Project: 334506-01
 Pace Project No.: 7035392

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		216403			216404								
Parameter	Units	7035391001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	3.2	2.5	153	120	70-130	23	30	M1	
Butachlor	ug/L	<0.10	2	2	1.7	1.5	84	76	70-130	11	30		
Metolachlor	ug/L	<0.10	2	2	1.8	1.8	89	88	70-130	1	30		
Metribuzin	ug/L	<0.50	2	2	1.5	1.3	78	65	70-130	15	30	M1	
Propachlor	ug/L	<0.10	2	2	1.9	1.8	96	91	70-130	5	30		
Simazine	ug/L	<0.070	2	2	1.6	1.3	81	67	70-130	19	30	M1	
1,3-Dimethyl-2-nitrobenzene(S)	%						117	101	70-130		30		
Perylene-d12 (S)	%						98	98	70-130		30		
Pyrene-d10 (S)	%						102	104	70-130		30		
Triphenylphosphate (S)	%						89	81	70-130		30		

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QUALIFIERS

Project: 334506-01
Pace Project No.: 7035392

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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(631)694-3040

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334606-01
Pace Project No.: 7035392

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035392001	334606-01	EPA 504.1	46150	EPA 504.1	46191
7035392001	334606-01	EPA 505	46262	EPA 505	46356
7035392001	334606-01	EPA 515.3	46814	EPA 515.3	46843
7035392001	334606-01	EPA 531.1	47016		
7035392001	334606-01	EPA 547	407599		
7035392001	334606-01	EPA 525.2	46235	EPA 525.2	46327

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WO#: 7035392



7035392

Phone (845)733-1557 Fax (845)733-1944

Other Samples in Box

CHAIN OF CUSTODY

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

- Sample Temp (c) _____
- Sample rec'd on ice?
- Sample set up in 6 hr?
- Properly preserved?
- Within holding times?
- Reviewed by

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection		Sample Description/Location	Containers No/type	Preservative	Analysis Required
	Date	Time				
234567	11/16	11A	W-2	2 40ml G	thio	EPA 504
				2 40ml G	thio	EPA 505
				1 250ml G	thio	EPA 515.3
				2 1L G	sulfite	EPA 525.2
				2 40ml G	thio	EPA 531.1
				3 40ml G	thio	EPA 547 Glyphosate
				1 250ml G	thio	EPA 548 Endothall
				1 1L Poly	none	EPA 549 Diquat
				1 1L G	none	EPA 1015 Dioxin

Comments/Special Instructions:

Rush Requested? Client Code: Prepaid?

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
			7/16/11	12:00					
Relinquished By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
Relinquished By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
Relinquished By:	print	sign	date:	time:	Received By:	print	sign	date:	time:

WO#: 7035392

PM: JM2 Due Date: 11/27/17
CLIENT: OCL

Other Samples in Cooler

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/Type	Preservative	Field	Analysis Required
2350001116	11/16	11A				W-2	2 40ml G	thio		EPA 504
							2 40ml G	thio		EPA 305
							1 250ml G	thio		EPA 515.3
							2 1L G	sulfite		EPA 505.2
							2 40ml G	thio		EPA 551.1
							3 40ml G	thio		EPA 547 Glutamate
							1 250ml G	thio		EPA 548 Endothall
							1 1L Poly	none		EPA 549 Diquat
							1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
Received By:			11/16/17	
Received By:			11/17/17	
Received By:			11/17/17	
Received By:			11/17/17	

(1)



Sample Condition Upon Receipt

Client Name: OCL

Pr

WO#: 7035392

PM: JM2 Due Date: 11/27/17
CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7707 0493 0106

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Rubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: T11092

Correction Factor: +0.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.2

Cooler Temperature Corrected (°C): 4.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing in 8.0°C

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: JK 11/17/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for MS/MSD):	<input type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Containers Intact:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/D/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Por Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.01



Sample Condition Upon Receipt

Client Name: OCL

Project # **WO#: 7035392**

PM: JM2 Due Date: 11/27/17
CLIENT: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1Z A110 7K4 03 2051 1428

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: 1H092

Correction Factor: 10.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.9

Cooler Temperature Corrected (°C): 50

Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: KCB 11/13/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix <u>SL</u> <u>WT</u> <u>OIL</u>		
All containers needing preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____
Exceptions: VOA, Colform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		Lot # of added preservative: _____
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Date/Time preservative added: _____
Residual chlorine strips Lot #		14. Positive for Res. Chlorine? Y N
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145626-1
Client Project/Site: 334506-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 12:42:25 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145626-1	334506-01	Water	11/06/17 11:00	11/15/17 09:20

3

TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Job ID: 680-145626-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-145626-1

Comments

No additional comments.

Receipt

The sample was received on 11/15/2017 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 548.1: The laboratory control sample (LCS) for preparation batch 680-503658 and analytical batch 680-503770 recovered outside control limits for the following analytes: Endothal. Insufficient volume for re-extraction of the samples outside of hold times. Data has been reported.

Method(s) 548.1: The following sample(s) was received past the extraction holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 334506-01 (680-145626-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Client Sample ID: 334506-01

Lab Sample ID: 680-145626-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Method: 548.1 - Endothall (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Endothall	ND	H *	10.0		ug/L		11/22/17 09:31	11/22/17 22:03	1	

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QC Sample Results

Client: Pace Analytical Services, LLC
 Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503658/16-A
 Matrix: Water
 Analysis Batch: 503770

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 503658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0		ug/L		11/22/17 09:31	11/22/17 18:21	1

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Lab Sample ID: LCS 680-503658/17-A
 Matrix: Water
 Analysis Batch: 503770

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 503658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	25.0	ND	*	ug/L		7	45 - 125

Lab Sample ID: LLCS 680-503658/18-A
 Matrix: Water
 Analysis Batch: 503770

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 503658

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	10.0	ND	*	ug/L		0	50 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

GC/MS Semi VOA

Prep Batch: 503658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145626-1	334506-01	Total/NA	Water	548.1	
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145626-1	334506-01	Total/NA	Water	548.1	503658
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	503658
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	503658
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	503658

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Client Sample ID: 334506-01

Lab Sample ID: 680-145626-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503658	11/22/17 08:31	RKL	TAL SAV
Total/NA	Analysis	548.1		1			603770	11/22/17 22:03	JCK	TAL SAV
Instrument ID: CMSR										

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	08-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	18	08-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	08-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	08-30-18
Minnesota	NELAP	5	047-999-346	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2983	10-09-18
New Jersey	NELAP	2	TN985	08-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (VWSW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	08-30-18
Ohio VAP	State Program	5	CL0033	07-08-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-18-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00308	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	480152	08-14-18
Washington	State Program	10	C789	07-18-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

9

Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Method	Method Description	Protocol	Laboratory
648.1	Endothal (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica Savannah

Chain of Custody



Workorder: 7035392 **Workorder Name:** 334506-01 **Results Requested By:** 11/27/2017
Report / Invoice To: Subcontract To
James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email: james.murphy@paceanalytical.com

P.O. _____
 TA-GA

State of Sample Origin:		Preserved Containers		Matrix	Lab ID	Collect Date/Time	Date/Time	Received By	Date/Time	Comments
Item	Sample ID	Used	Unassessed							
1	334506-01			Drinking	7035392001	11/5/2017 11:00	11/17/17	James Murphy	11/15/17	NY samples
2									6970	286690.273 Ø
3										
4										
5										

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Y or N	Y or N
1	James Murphy	11/17/17	James Murphy	11/15/17				
2								
3								

Cooler Temperature on Receipt _____ °C Custody Seal Y or N _____ Received on Ice Y or N _____ Samples Intact Y or N _____



Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-145626-1

Login Number: 145626

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with Immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is < 8 mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
 TestAmerica Savannah
 5102 LaRoche Avenue
 Savannah, GA 31404
 Tel: (912)354-7858

TestAmerica Job ID: 680-145626-1
 Client Project/Site: 334506-01

For:
 Pace Analytical Services, LLC
 2190 Technology Drive
 Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
 11/27/2017 12:42:25 PM

Roxanne Cisneros, Senior Project Manager
 (615)301-5761
 roxanne.cisneros@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
"	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Savannah

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145626-1	334506-01	Water	11/08/17 11:00	11/16/17 09:20

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TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334508-01

TestAmerica Job ID: 680-145826-1

Job ID: 680-145826-1

Laboratory: TestAmerica Savannah

Narrative

**Job Narrative
680-145826-1**

Comments

No additional comments.

Receipt

The sample was received on 11/15/2017 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 548.1: The laboratory control sample (LCS) for preparation batch 680-503658 and analytical batch 680-503770 recovered outside control limits for the following analytes: Endothal. Insufficient volume for re-extraction of the samples outside of hold times. Data has been reported.

Method(s) 548.1: The following sample(s) was received past the extraction holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 334508-01 (680-145826-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Client Sample ID: 334506-01

Lab Sample ID: 680-145626-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Method: 548.1 - Endothall (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Endothall	ND	H*	10.0		ug/L		11/22/17 09:31	11/22/17 22:03	1	

5

QC Sample Results

Client: Pace Analytical Services, LLC
 Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503658/16-A Matrix: Water Analysis Batch: 503770						Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 503658			
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	Result	Qualifier	10.0		ug/L		11/22/17 09:31	11/22/17 18:21	1

6

Lab Sample ID: LCS 680-503658/17-A Matrix: Water Analysis Batch: 503770						Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 503658			
Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits		
Endothall	Added	Result	Qualifier	ug/L		7	45 - 125		

Lab Sample ID: LLCS 680-503658/18-A Matrix: Water Analysis Batch: 503770						Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 503658			
Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	Limits		
Endothall	Added	Result	Qualifier	ug/L		0	50 - 150		

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

GC/MS Semi VOA

Prep Batch: 503658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145626-1	334506-01	Total/NA	Water	548.1	
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145626-1	334506-01	Total/NA	Water	548.1	503658
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	503658
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	503658
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	503658

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Client Sample ID: 334506-01

Lab Sample ID: 680-145626-1

Date Collected: 11/06/17 11:00

Matrix: Water

Date Received: 11/15/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503658	11/22/17 08:31	RKL	TAL SAV
Total/NA	Analysis	548.1		1			603770	11/22/17/22:03	JCK	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7868

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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-26-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	8	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	6	CL0033	07-06-19
Oklahoma	State Program	8	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAC00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	8	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

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Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334506-01

TestAmerica Job ID: 680-145626-1

Method	Method Description	Protocol	Laboratory
548.1	Endothal (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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TestAmerica Savannah

Chain of Custody



Workorder: 7035392 Workorder Name: 334506-01
 Report / Invoice To Subcontract To

Results Requested By: 11/27/2017

James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email: james.murphy@pacelabs.com

TA-GA P.O.

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
					1	2	
1	334506-01	11/6/2017 11:00	7035392001	Drinking	1		
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N	Comments
1	<i>James Murphy</i>	11/17/17	<i>James Murphy</i>	11/15/17					NY samples
2				11/15/17					2 x CFM 4.233.0
3				11/17/17					

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N



680-145626 Chain of Custody

Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-145626-1

Login Number: 145628

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/6/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334507-01
Federal ID
Description
Location W-2
Sample Point

Date Sampled 11/06/17 11:00
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached						OL	
Radiologicals								
Gross Alpha	see attached			15			PG	
Gross Beta	see attached						PG	
Radium 226	see attached			5			PG	
Radium 228	see attached			5			PG	
Uranium, U	see attached	ug/L		30			PG	
RADON								
Radon	see attached						PG	

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217113195
 Client Name: OCL Analytical Services

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MFL)	Asbestos Conc (total) (MFL)	Asbestos Conc (>10 µm) (MFL)	Asbestos Type
01	334507-01 W-2 Sample #02	0.025	4	NSD	NSD	0.14	<0.14	<0.14	---

*NA/NSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepped by EPA-600/4-80-005. MFL = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed.

Reviewed By: *[Signature]* ; Analyzed By: *[Signature]* Date: 11/15/2017
 Aleksandr Barenholts



Pace Analytical Services, LLC
1638 Roseytown Road - Sules 2,3,4
Greensburg, PA 15601
(724)850-5600

November 08, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334507
Pace Project No.: 30235235

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 334507
Pace Project No.: 30235235

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0894

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4088

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2667

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
1838 Rossetown Road - Sules 2,3,4
Greenburg, PA 15801
(724)850-6600

SAMPLE SUMMARY

Project: 334507
Pace Project No.: 30235235

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235235001	334507-01	Drinking Water	11/06/17 11:00	11/07/17 09:45

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334507
Pace Project No.: 30235235

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30236236001	334507-01	SM7500RnB-07	NJV	1

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Pace Analytical Services, LLC
1638 Roseytown Road - Sules 2,3,4
Greensburg, PA 15801
(724)850-6800

PROJECT NARRATIVE

Project: 334607
Pace Project No.: 30235235

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 08, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1636 Rosstown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334507
Pace Project No.: 30235235

Sample: 334507-01 Lab ID: 30235235001 Collected: 11/06/17 11:00 Received: 11/07/17 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	1,629 ± 88.7 (45.7) C:NA T:NA	pCi/L	11/08/17 01:10	10043-92-2	

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Pace Analytical Services, LLC
 1838 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334507
 Pace Project No.: 30235235

QC Batch: 278240 Analysis Method: SM7500RnB-07
 QC Batch Method: SM7500RnB-07 Analysis Description: 7500Rn B Radon
 Associated Lab Samples: 30235235001

METHOD BLANK: 1366889 Matrix: Water
 Associated Lab Samples: 30235235001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	-14.7 ± 19.1 (34.2) C:NA T:NA	pCi/L	11/07/17 22:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 334607
Pace Project No.: 30235235

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.98 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) 12.6
 Sample rec'd on ice? no
 Sample set up in 6 hr? no
 Properly preserved? no
 Within holding times? no
 Reviewed by HR

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date Time	comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Prep. Time	Analysis Required
<u>3342019</u>	<u>1/6/17</u>				<u>W-2</u>	1 LP	HNO3		<u>Gross-Alpha</u>
						1 LP	HNO3		<u>Gross-Beta</u>
						1 LP	HNO3		<u>Radon-226</u>
						1 LP	HNO3		<u>Radon-228</u>
						1 LP	HNO3		<u>Strontium</u>
						2 40mm	none		Radon in Water
						1 LP	none		<u>ACCRETION</u>



Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By: _____	date: <u>1/6/17</u>	time: <u>1:40</u>	Received By: _____	date: <u>1/6/17</u>	time: <u>2:00</u>
Relinquished By: _____	date: <u>1/6/17</u>	time: <u>15:00</u>	Received By: _____	date: <u>1/7/17</u>	time: <u>05:45</u>
Relinquished By: _____	date: _____	time: _____	Received By: _____	date: _____	time: _____
Relinquished By: _____	date: _____	time: _____	Received By: _____	date: _____	time: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL

Project # 30235235

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label	<u>BL</u>
LIMS Login	<u>PNIV</u>

Tracking #: 1Z7747180197219634

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 8°C

Date and Initials of person examining contents: 11/7/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:		/		
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved Iasts			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, colform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>11/7/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

December 01, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334507
Pace Project No.: 30235532

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 334507
Pace Project No.: 30235532

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2887
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 480198
Washington Certification #: C888
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9984C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 334507
Pace Project No.: 30235532

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235532001	334507-01	Drinking Water	11/08/17 11:00	11/09/17 09:50

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334507
Pace Project No.: 30235532

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235532001	334507-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

PROJECT NARRATIVE

Project: 334507
Pace Project No.: 30235532

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334507
Pace Project No.: 30235532

Method: EPA 903.1
Description: 903.1 Radium 228
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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1638 Rossettown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

PROJECT NARRATIVE

Project: 334507
Pace Project No.: 30235532

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suits 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334507
Pace Project No.: 30235532

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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 1636 Roseylown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334507
 Pace Project No.: 30235532

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	1.42 ± 1.30 (2.32) C:NA T:NA	pCi/L	11/20/17 08:24	12587-46-1	
Gross Beta	EPA 900.0	1.40 ± 0.951 (1.85) C:NA T:NA	pCi/L	11/20/17 08:24	12587-47-2	
Radium-226	EPA 903.1	0.521 ± 0.383 (0.510) C:NA T:92%	pCi/L	11/27/17 13:40	13982-83-3	
Radium-228	EPA 904.0	0.477 ± 0.469 (0.986) C:73% T:73%	pCi/L	11/16/17 12:03	15262-20-1	
Total Uranium	ASTM D5174-97	1.67 ± 0.054 (0.193) C:NA T:NA	ug/L	11/30/17 17:35	7440-81-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseytown Road - Suites 2,3,4
 Greentown, PA 15601
 (724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334507
 Pace Project No.: 30235532

QC Batch: 278883 Analysis Method: EPA 903.1
 QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
 Associated Lab Samples: 30235532001

METHOD BLANK: 1388639 Matrix: Water
 Associated Lab Samples: 30235532001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0453 ± 0.236 (0.488) C:NA T:93%	pCi/L	11/27/17 12:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseydown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-6600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334507
 Pace Project No.: 30235532

QC Batch: 278843	Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0	Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30235532001	

METHOD BLANK: 1369531 Matrix: Water
 Associated Lab Samples: 30235532001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.879 ± 0.931 (1.87) C:NA T:NA	pCi/L	11/20/17 08:11	
Gross Beta	2.15 ± 1.10 (1.86) C:NA T:NA	pCi/L	11/20/17 08:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suits 2,3,4
Greensburg, PA 15601
(724)860-5600

QUALIFIERS

Project: 334507
Pace Project No.: 30235532

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Date: 12/01/2017 08:51 AM

Page 14 of 16

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) 12.6
 Sample rec'd on ice? oo
 Sample set up in 6 hr? oo
 Properly preserved? oo
 Within holding times? oo
 Reviewed by HC

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Analysis Required
30235532	11/6/17			W-2	1 LP	HNO3	Gross Alpha
					1 LP	HNO3	Gross Beta
					1 LP	HNO3	Radium 226
					1 LP	HNO3	Radium 228
					1 LP	HNO3	Uranium
					2 40mm	none	Plutonium
					1 LP	none	NEPTUNES

NO# 30235532



Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	date:	11/6/17	sign	time:	11:00
Reinquired By:	print	date:	11/6/17	sign	time:	11:00
Reinquired By:	print	date:	11/9/17	sign	time:	09:56
Reinquired By:	print	date:		sign	time:	

Received By: HC date: 11/6/17 time: 11:00
 Received By: Eric Thurkhuson date: 11/9/17 time: 09:56
 Received By: HC date: _____ time: _____
 Received By: _____ date: _____ time: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCCL

Project # 30235532

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z2Z47180396543657

Label	<u>ZH</u>
LIMS Login	<u>ANV</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 11/9/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volumes:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16. <u>PHZZ</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>8mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.6 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>11/9/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334504-01			W-3		Drinking Water			
Total Coliform(ONPG)	Absence	per 100ml	SM20 9223B-97 C			11/06/17 15:00	AM	o
E.coli (ONPG)	Absence	per 100ml	SM20 9223B-97 C n/iter			11/06/17 15:00	AM	o
334504-02			W-3		Drinking Water			
Chloride	<4.00	mg/L	SM20 4500CL-C-9 7	250		11/07/17 0:00	JR	
Color (apparent)	<5.0		SM20 2120B-01	15		11/06/17 15:00	JR	
Alkalinity as CaCO3	48.8	mg/L	SM20 2320B-97			11/07/17 0:00	AM	
Hardness as CaCO3, Calcium	38.0	mg/L	SM20 3500CaB-97			11/08/17 11:30	AM	
pH	6.33		SM20 2330H+B			11/06/17 14:50	JR	H3
Corrosivity Index (LI)	-2.30		SM20 2330			11/10/17 0:00	AM	
Fluoride	<0.200	mg/L	SM20 4500F-C-97	2.2		11/07/17 0:00	JR	
Nitrate/Nitrite as N	0.175	mg/L	La1010704IC	10.0		11/08/17 0:00	LM	
Nitrite as N	<0.010	mg/L	SM20 4500NO2-B- nn	1.0		11/07/17 10:45	JR	
Odor at 60C	None		SM20 2150B-97	3		11/06/17 14:55	JR	OD
Solids, Dissolved Total	44.0	mg/L	SM20 2540C-97	500		11/09/17 15:40	AM	
Turbidity	0.864	ntu	SM20 2130B-01	1		11/06/17 16:05	JR	
334504-03			W-3		Drinking Water			
1,1,1,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,1,1-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,1,2,2-Tetrachloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,1,2-Trichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,1-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,1-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,1-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U

OCL Analytical Services

35 Goshen Turnpike
 Bloomingburg NY 12721

Phone 845-733-1557

Fax 845-733-1944

Web odanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334504-03				W-3				Drinking Water
1,2,3-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,2,3-Trichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,2,4-Trichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,2,4-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,2-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,2-Dichloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,3,5-Trimethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,3-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,3-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
1,4-Dichlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
2,2-Dichloropropane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
2-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
4-Chlorotoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Benzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Bromobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Bromochloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Bromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Carbon tetrachloride	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Chlorobenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Chloroethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Chloromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Dibromomethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Dichlorodifluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Ethylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Hexachlorobutadiene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Isopropylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Methyl tert-butyl ether	<0.50	ug/L	EPA 524.2	10		11/08/17 9:15	EL	U
Methylene chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Styrene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U

OCL Analytical Services

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 2142 Route 302
 Circleville, NY 10919

Project
 Date Sampled 11/6/2017
 Date Complete 11/28/2017
 Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334504-03				W-3				Drinking Water
Tetrachloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Toluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Trichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Trichlorofluoromethane	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Vinyl chloride	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
cis-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
cis-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
n-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
n-Propylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
p-Isopropyltoluene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
sec-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
tert-Butylbenzene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
trans-1,2-Dichloroethene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
trans-1,3-Dichloropropene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
m-Xylene & p-Xylene	<1.0	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
o-Xylene	<0.50	ug/L	EPA 524.2	5		11/08/17 9:15	EL	U
Bromodichloromethane	<0.50	ug/L	EPA 524.2			11/08/17 9:15	EL	U
Bromoform	<0.50	ug/L	EPA 524.2			11/08/17 9:15	EL	U
Chloroform	<0.50	ug/L	EPA 524.2			11/08/17 9:15	EL	U
Chlorodibromomethane	<0.50	ug/L	EPA 524.2			11/08/17 9:15	EL	U
Trihalomethanes, Total	<2.0	ug/L	EPA 524.2	80		11/08/17 9:15	EL	U
Dibromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:18	EL	U
Dichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:18	EL	U
Monobromoacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:18	EL	U
Monochloroacetic Acid	<2.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:18	EL	U
Trichloroacetic Acid	<1.0	ug/L	EPA 552.2		11/14/17 9:30	11/14/17 4:18	EL	U
Total Haloacetic Acids	<1.0	ug/L	EPA 552.2	60	11/14/17 9:30	11/14/17 4:18	EL	U
Silver, Ag	<0.0010	mg/L	EPA 200.8	0.10	11/10/17 11:14	11/13/17 5:48	EL	U

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/6/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
334504-03				W-3				Drinking Water
Copper, Cu	0.038	mg/L	EPA 200.8	1.3	11/10/17 8:54	11/10/17 6:27	EL	
Cyanide, Total	<0.0050	mg/L	SM18 4500-CN E	0.2	11/13/17 10:28	11/15/17 10:45	EL	U
Iron, Fe	<0.060	mg/L	EPA 200.7	0.30	11/10/17 8:54	11/10/17 3:01	EL	U
Arsenic, As	<0.0014	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Barium, Ba	0.0074	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	
Cadmium, Cd	<0.0010	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Chromium, Cr	<0.0070	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Mercury, Hg	<0.00020	mg/L	EPA 245.1		11/15/17 10:30	11/15/17 3:44	EL	U
Selenium, Se	<0.0020	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Antimony, Sb	<0.00040	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Beryllium, Be	<0.00030	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Nickel, Ni	<0.00050	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Thallium, Tl	<0.00030	mg/L	EPA 200.8		11/10/17 8:54	11/10/17 6:27	EL	U
Manganese, Mn	<0.010	mg/L	EPA 200.7	0.3	11/10/17 8:54	11/10/17 3:01	EL	U
Sodium, Na	6.7	mg/L	EPA 200.7		11/10/17 8:54	11/10/17 3:01	EL	
Lead, Pb	<0.0010	mg/L	EPA 200.8	0.015	11/10/17 8:54	11/10/17 6:27	EL	U
Sulfate	<5.0	mg/L	EPA 300.0	250		11/08/17 7:29	EL	U
Zinc, Zn	<0.020	mg/L	EPA 200.7	5.0	11/10/17 8:54	11/10/17 3:01	EL	U

EL = Analysis by Envirotest Laboratories #10142

OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721


Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Project
Date Sampled 11/6/2017
Date Complete 11/28/2017
Date Printed 11/28/2017

Test	Result	Units	Method	MCL	Prep Date	Test Date	Initials	Qualifiers
------	--------	-------	--------	-----	-----------	-----------	----------	------------

Approved By 
Lisa McClinton
Lab Manager

The reported results relate only to the samples identified above

Qualifiers

- H3 = This analysis is no longer ELAP certified.
- o = Sample not received on ice.
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL Analytical Services

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Phone 845-733-1557
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Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/6/2017
Date Complete 12/6/2017
Date Printed 12/6/2017

Sample Number 334503-01
Federal ID
Description
Location W-3
Sample Point

Date Sampled 11/06/17 12:00
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
1613 Dioxin								
Dioxin	see attached		EPA 1613				PM	
547 Glyphosate								
Glyphosate	see attached	mg/L					PM	
548.1 Endothall								
Endothall	see attached	ug/L					PM	
549.2 Diquat								
Diquat	see attached	mg/L					PM	
SOCpace								
504.1	see attached		EPA 504.1				PM	
505	see attached		EPA 505				PM	
515.3	see attached		EPA 515.3				PM	
525.2	see attached		EPA 525.2				PM	
531.1	see attached		EPA 531.1				PM	

attach_01

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above



Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)684-3040

December 05, 2017

Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334503-01
Pace Project No.: 7035390

Dear Lisa McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Doxin samples were subcontracted to Pace Analytical Services, Inc., 1700 Elm Street, Minneapolis, MN 55414

547,548 & 549 samples were subcontracted to Pace Analytical, LLC, 8 Tower Circle W., Ormond Beach, FL, 32174

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Murphy
james.murphy@pacelabs.com
(518)346-4592
Project Manager



REPORT OF LABORATORY ANALYSIS

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Melville, NY 11747
(831)894-3040

December 05, 2017
Page 2

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334503-01
Pace Project No.: 7035390

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification #: 346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #98042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(831)694-3040

SAMPLE SUMMARY

Project: 334503-01
Pace Project No.: 7035390

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7035390001	334603-01	Drinking Water	11/06/17 12:00	11/09/17 10:05

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Melville, NY 11747
(831)894-3040

SAMPLE ANALYTE COUNT

Project: 334603-01

Pace Project No.: 7035390

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7035390001	334603-01	EPA 504.1	MMR	2	PACE-MV
		EPA 505	MMR	15	PACE-MV
		EPA 515.3	MMR	8	PACE-MV
		EPA 531.1	MMR	8	PACE-MV
		EPA 547	NMB	1	PASI-O
		EPA 549.2	NMB	1	PASI-O
		EPA 525.2	EAG	13	PACE-MV

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ANALYTICAL RESULTS

Project: 334503-01
 Pace Project No.: 7035390

Sample: 334503-01	Lab ID: 7035390001	Collected: 11/08/17 12:00	Received: 11/09/17 10:05	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromo-3-chloropropane	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 09:32	98-12-8	
1,2-Dibromoethane (EDB)	<0.010	ug/L	0.010		1	11/10/17 17:15	11/11/17 09:32	106-93-4	
505 GCS Pesticides/PCBs									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Atrachlor	<0.20	ug/L	0.20		1	11/13/17 13:21	11/14/17 00:14	15972-60-8	
Aldrin	<0.025	ug/L	0.025		1	11/13/17 13:21	11/14/17 00:14	309-00-2	
gamma-BHC (Lindane)	<0.020	ug/L	0.020		1	11/13/17 13:21	11/14/17 00:14	58-89-9	
Chlordane (Technical)	<0.20	ug/L	0.20		1	11/13/17 13:21	11/14/17 00:14	57-74-9	
Dieldrin	<0.050	ug/L	0.050		1	11/13/17 13:21	11/14/17 00:14	60-57-1	
Endrin	<0.010	ug/L	0.010		1	11/13/17 13:21	11/14/17 00:14	72-20-8	
Heptachlor	<0.025	ug/L	0.025		1	11/13/17 13:21	11/14/17 00:14	78-44-8	
Heptachlor epoxide	<0.020	ug/L	0.020		1	11/13/17 13:21	11/14/17 00:14	1024-67-3	
Hexachlorobenzene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:14	118-74-1	
Hexachlorocyclopentadiene	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:14	77-47-4	
Methoxychlor	<0.10	ug/L	0.10		1	11/13/17 13:21	11/14/17 00:14	72-43-5	
PCB Screen	<0.40	ug/L	0.40		1	11/13/17 13:21	11/14/17 00:14		
Toxaphene	<1.0	ug/L	1.0		1	11/13/17 13:21	11/14/17 00:14	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	104	%	30-160		1	11/13/17 13:21	11/14/17 00:14	877-09-8	
Decachlorobiphenyl (S)	95	%	30-150		1	11/13/17 13:21	11/14/17 00:14	2051-24-3	
515.3 Chlorinated Herbicides									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
2,4-D	<0.10	ug/L	0.10		1	11/15/17 11:52	11/17/17 20:33	94-75-7	
Dalapon	<0.70	ug/L	0.70		1	11/15/17 11:52	11/17/17 20:33	75-99-0	
Dicamba	<1.0	ug/L	1.0		1	11/15/17 11:52	11/17/17 20:33	1918-00-9	
Dinoseb	<0.20	ug/L	0.20		1	11/15/17 11:52	11/17/17 20:33	88-85-7	
Pentachlorophenol	<0.040	ug/L	0.040		1	11/15/17 11:52	11/17/17 20:33	87-86-5	
Picloram	<0.10	ug/L	0.10		1	11/15/17 11:52	11/17/17 20:33	1918-02-1	
2,4,5-TP (Silvex)	<0.13	ug/L	0.13		1	11/15/17 11:52	11/17/17 20:33	93-72-1	
Surrogates									
2,4-DCAA (S)	103	%	70-130		1	11/15/17 11:52	11/17/17 20:33	19719-28-9	
531.1 HPLC Carbamates									
Analytical Method: EPA 531.1									
Aldicarb	<0.50	ug/L	0.50		1		11/19/17 01:48	116-06-3	
Aldicarb sulfone	<0.80	ug/L	0.80		1		11/19/17 01:48	1646-88-4	L1
Aldicarb sulfoxide	<0.50	ug/L	0.50		1		11/19/17 01:48	1646-87-3	L1
Carbofuran	<0.90	ug/L	0.90		1		11/19/17 01:48	1583-66-2	
3-Hydroxycarbofuran	<1.0	ug/L	1.0		1		11/19/17 01:48	16855-82-6	L1
Methomyl	<1.0	ug/L	1.0		1		11/19/17 01:48	16752-77-5	L1
Oxamyl	<1.0	ug/L	1.0		1		11/19/17 01:48	23135-22-0	L1
Carbaryl	<1.0	ug/L	1.0		1		11/19/17 01:48	63-25-2	
547 HPLC Glyphosate									
Analytical Method: EPA 547									
Glyphosate	<6.0	ug/L	6.0	700	1		11/22/17 18:54		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 334503-01

Pace Project No.: 7035390

Sample: 334503-01	Lab ID: 7035390001	Collected: 11/06/17 12:00	Received: 11/09/17 10:05	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
549.2 HPLC Paraquat Diquat									
Analytical Method: EPA 549.2 Preparation Method: EPA 549.2									
Diquat	<0.40	ug/L	0.40	20	1	11/15/17 21:49	11/16/17 23:30	85-00-7	H3
525.2 Base Neutral Extractable									
Analytical Method: EPA 525.2 Preparation Method: EPA 525.2									
Atrazine	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 23:14	1912-24-9	
Benzo(a)pyrene	<0.020	ug/L	0.020		1	11/13/17 14:02	11/13/17 23:14	50-32-8	
Butachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 23:14	23184-68-9	
bis(2-Ethylhexyl)adipate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 23:14	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.60	ug/L	0.60		1	11/13/17 14:02	11/13/17 23:14	117-81-7	
Metolachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 23:14	51218-45-2	
Metribuzin	<0.50	ug/L	0.50		1	11/13/17 14:02	11/13/17 23:14	21087-64-9	
Propachlor	<0.10	ug/L	0.10		1	11/13/17 14:02	11/13/17 23:14	1918-16-7	
Simazine	<0.070	ug/L	0.070		1	11/13/17 14:02	11/13/17 23:14	122-34-9	
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	94	%	70-130		1	11/13/17 14:02	11/13/17 23:14	81209	
Perylene-d12 (S)	102	%	70-130		1	11/13/17 14:02	11/13/17 23:14	1520983	
Triphenylphosphate (S)	80	%	70-130		1	11/13/17 14:02	11/13/17 23:14	115-88-8	
Pyrene-d10 (S)	101	%	70-130		1	11/13/17 14:02	11/13/17 23:14		

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 47016 Analysis Method: EPA 531.1
 QC Batch Method: EPA 531.1 Analysis Description: 531.1 HPLC Carbamate
 Associated Lab Samples: 7035390001

METHOD BLANK: 219450 Matrix: Water
 Associated Lab Samples: 7035390001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<1.0	1.0	11/18/17 16:04	
Aldicarb	ug/L	<0.50	0.50	11/18/17 16:04	
Aldicarb sulfone	ug/L	<0.80	0.80	11/18/17 16:04	
Aldicarb sulfoxide	ug/L	<0.50	0.50	11/18/17 16:04	
Carbaryl	ug/L	<1.0	1.0	11/18/17 16:04	
Carbofuran	ug/L	<0.90	0.90	11/18/17 16:04	
Methomyl	ug/L	<1.0	1.0	11/18/17 16:04	
Oxamyl	ug/L	<1.0	1.0	11/18/17 16:04	

LABORATORY CONTROL SAMPLE: 219451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	3.8	4.6	123	80-120 L1	
Aldicarb	ug/L	3.8	4.0	106	80-120	
Aldicarb sulfone	ug/L	3.8	4.8	127	80-120 L1	
Aldicarb sulfoxide	ug/L	3.8	5.0	133	80-120 L1	
Carbaryl	ug/L	3.8	4.4	116	80-120	
Carbofuran	ug/L	3.8	4.5	120	80-120	
Methomyl	ug/L	3.8	5.1	135	80-120 L1	
Oxamyl	ug/L	3.8	4.9	130	80-120 L1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219452 219453

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7035460005 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
3-Hydroxycarbofuran	ug/L	<1.0	3.8	3.8	4.0	4.3	107	115	65-135	7	20
Aldicarb	ug/L	<0.50	3.8	3.8	4.1	4.1	110	110	65-135	0	20
Aldicarb sulfone	ug/L	<0.80	3.8	3.8	4.4	4.4	116	117	65-135	0	20
Aldicarb sulfoxide	ug/L	<0.50	3.8	3.8	4.7	4.7	125	125	65-135	1	20
Carbaryl	ug/L	<1.0	3.8	3.8	4.0	4.1	105	110	65-135	4	20
Carbofuran	ug/L	<0.90	3.8	3.8	4.5	4.9	119	131	65-135	10	20
Methomyl	ug/L	<1.0	3.8	3.8	4.1	4.6	110	122	65-135	10	20
Oxamyl	ug/L	<1.0	3.8	3.8	4.5	4.5	119	120	65-135	1	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 407599 Analysis Method: EPA 547
 QC Batch Method: EPA 547 Analysis Description: 547 HPLC Glyphosate
 Associated Lab Samples: 7035390001

METHOD BLANK: 2225133 Matrix: Water
 Associated Lab Samples: 7035390001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Glyphosate	ug/L	<6.0	6.0	11/22/17 17:06	

LABORATORY CONTROL SAMPLE: 2225134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	ug/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225135 2225136

Parameter	Units	7034728001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Glyphosate	ug/L	<6.0	50	50	53.8	54.3	108	109	80-120	1	30	H1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2225137 2225138

Parameter	Units	7035432001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Glyphosate	ug/L	<6.0	50	50	52.6	51.4	105	103	80-120	2	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 46150 Analysis Method: EPA 504.1
 QC Batch Method: EPA 504.1 Analysis Description: 504 EDB DBCP
 Associated Lab Samples: 7035390001

METHOD BLANK: 215816 Matrix: Water
 Associated Lab Samples: 7035390001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	0.010	11/11/17 07:55	
1,2-Dibromoethane (EDB)	ug/L	<0.010	0.010	11/11/17 07:55	

LABORATORY CONTROL SAMPLE: 215817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.071	0.069	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	.071	0.086	120	70-130	

LABORATORY CONTROL SAMPLE: 215818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.01	0.011	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	.01	0.011	112	70-130	

MATRIX SPIKE SAMPLE: 216409

Parameter	Units	7035390001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	<0.010	.071	0.069	97	65-135	
1,2-Dibromoethane (EDB)	ug/L	<0.010	.071	0.078	109	65-135	

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 48262 Analysis Method: EPA 505
 QC Batch Method: EPA 505 Analysis Description: 505 GCS Pesticides
 Associated Lab Samples: 7035390001

METHOD BLANK: 216245 Matrix: Water
 Associated Lab Samples: 7035390001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	<0.20	0.20	11/13/17 17:16	
Chlordane (Technical)	ug/L	<0.025	0.025	11/13/17 17:16	
Dieldrin	ug/L	<0.20	0.20	11/13/17 17:16	
Endrin	ug/L	<0.050	0.050	11/13/17 17:16	
gamma-BHC (Lindane)	ug/L	<0.010	0.010	11/13/17 17:16	
Heptachlor	ug/L	<0.020	0.020	11/13/17 17:16	
Heptachlor epoxide	ug/L	<0.025	0.025	11/13/17 17:16	
Hexachlorobenzene	ug/L	<0.020	0.020	11/13/17 17:16	
Hexachlorocyclopentadiene	ug/L	<0.10	0.10	11/13/17 17:16	
Methoxychlor	ug/L	<0.10	0.10	11/13/17 17:16	
PCB Screen	ug/L	<0.10	0.10	11/13/17 17:16	
Toxaphene	ug/L	<0.40	0.40	11/13/17 17:16	
Decachlorobiphenyl (S)	%	<1.0	1.0	11/13/17 17:16	
Tetrachloro-m-xylene (S)	%	113	30-150	11/13/17 17:16	
		107	30-150	11/13/17 17:16	

LABORATORY CONTROL SAMPLE: 216248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	.48	0.48	101	70-130	
Chlordane (Technical)	ug/L	.048	0.047	99	70-130	
Dieldrin	ug/L	.048	<0.20			
Endrin	ug/L	.048	<0.050	93	70-130	
gamma-BHC (Lindane)	ug/L	.048	0.047	98	70-130	
Heptachlor	ug/L	.048	0.058	122	70-130	
Heptachlor epoxide	ug/L	.048	0.049	102	70-130	
Hexachlorobenzene	ug/L	.048	0.045	95	70-130	
Hexachlorocyclopentadiene	ug/L	.048	<0.10	97	70-130	
Methoxychlor	ug/L	.24	<0.10	94	70-130	
PCB Screen	ug/L	.24	0.22	92	70-130	
Toxaphene	ug/L		<0.40			
Decachlorobiphenyl (S)	%		<1.0			
Tetrachloro-m-xylene (S)	%			102	30-150	
				104	30-150	

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

MATRIX SPIKE SAMPLE: 216322		7035322001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Alachlor	ug/L	<0.20	.95	0.84	88	65-135	
Aldrin	ug/L	<0.025	.095	0.079	83	65-135	
Chlordane (Technical)	ug/L	<0.20		<0.20			
Dieldrin	ug/L	<0.050	.095	0.081	85	65-135	
Endrin	ug/L	<0.010	.095	0.086	88	65-135	
gamma-BHC (Lindane)	ug/L	<0.020	.095	0.10	108	65-135	
Heptachlor	ug/L	<0.025	.095	0.087	88	65-135	
Heptachlor epoxide	ug/L	<0.020	.095	0.078	82	65-135	
Hexachlorobenzene	ug/L	<0.10	.095	<0.10	83	65-135	
Hexachlorocyclopentadiene	ug/L	<0.10	.095	<0.10	90	65-135	
Methoxychlor	ug/L	<0.10	.48	0.42	87	65-135	
PCB Screen	ug/L	<0.40		<0.40			
Toxaphene	ug/L	<1.0		<1.0			
Decachlorobiphenyl (S)	%				89	30-150	
Tetrachloro-m-xylene (S)	%				88	30-150	

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 46814 Analysis Method: EPA 515.3
 QC Batch Method: EPA 515.3 Analysis Description: 5153 GCS Herbicides
 Associated Lab Samples: 7035390001

METHOD BLANK: 217842 Matrix: Water
 Associated Lab Samples: 7035390001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.13	0.13	11/17/17 18:06	
2,4-D	ug/L	<0.10	0.10	11/17/17 18:06	
Dalapon	ug/L	<0.70	0.70	11/17/17 18:06	
Dicamba	ug/L	<1.0	1.0	11/17/17 18:06	
Dinoseb	ug/L	<0.20	0.20	11/17/17 18:06	
Pentachlorophenol	ug/L	<0.040	0.040	11/17/17 18:06	
Picloram	ug/L	<0.10	0.10	11/17/17 18:06	
2,4-DCAA (S)	%	102	70-130	11/17/17 18:06	

LABORATORY CONTROL SAMPLE: 217843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	.2	0.22	110	70-130	
2,4-D	ug/L	.6	0.61	101	70-130	
Dalapon	ug/L	2	1.9	96	70-130	
Dicamba	ug/L	.2	<1.0	94	70-130	
Dinoseb	ug/L	.4	0.43	108	70-130	
Pentachlorophenol	ug/L	.2	0.19	93	70-130	
Picloram	ug/L	.2	0.17	84	70-130	
2,4-DCAA (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217893 217894

Parameter	Units	217893		217894		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		7035458003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
2,4,5-TP (Silvex)	ug/L	<0.13	.2	.2	0.19	0.19	95	96	65-135	1 20
2,4-D	ug/L	<0.10	.6	.8	0.52	0.61	86	100	65-135	15 20
Dalapon	ug/L	<0.70	2	2	1.9	2.0	95	99	65-135	4 20
Dicamba	ug/L	<1.0	.2	.2	<1.0	<1.0	80	97	65-135	4 20
Dinoseb	ug/L	<0.20	.4	.4	0.38	0.39	94	98	65-135	4 20
Pentachlorophenol	ug/L	<0.040	.2	.2	0.18	0.18	86	87	65-135	2 20
Picloram	ug/L	<0.10	.2	.2	0.19	0.16	76	61	65-135	16 20 M1
2,4-DCAA (S)	%						98	98	70-130	20

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 46076 Analysis Method: EPA 525.2
 QC Batch Method: EPA 525.2 Analysis Description: 525.2 Base Neutral Extractables
 Associated Lab Samples: 7035390001

METHOD BLANK: 215604 Matrix: Water
 Associated Lab Samples: 7035390001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Atrazine	ug/L	<0.10	0.10	11/13/17 14:47	
Benzo(a)pyrene	ug/L	<0.020	0.020	11/13/17 14:47	
bis(2-Ethylhexyl)adipate	ug/L	<0.60	0.60	11/13/17 14:47	
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	0.60	11/13/17 14:47	
Butachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metolachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Metribuzin	ug/L	<0.50	0.50	11/13/17 14:47	
Propachlor	ug/L	<0.10	0.10	11/13/17 14:47	
Simazine	ug/L	<0.070	0.070	11/13/17 14:47	
1,3-Dimethyl-2-nitrobenzene(S)	%	105	70-130	11/13/17 14:47	
Perylene-d12 (S)	%	103	70-130	11/13/17 14:47	
Pyrene-d10 (S)	%	98	70-130	11/13/17 14:47	
Triphenylphosphate (S)	%	93	70-130	11/13/17 14:47	

LABORATORY CONTROL SAMPLE: 215605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Atrazine	ug/L	2	1.7	87	70-130	
Benzo(a)pyrene	ug/L	2	2.0	102	70-130	
bis(2-Ethylhexyl)adipate	ug/L	2	1.9	94	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	2	2.3	114	70-130	
Butachlor	ug/L	2	1.5	78	70-130	
Metolachlor	ug/L	2	1.9	93	70-130	
Metribuzin	ug/L	2	1.8	89	70-130	
Propachlor	ug/L	2	1.8	92	70-130	
Simazine	ug/L	2	1.9	95	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			105	70-130	
Perylene-d12 (S)	%			103	70-130	
Pyrene-d10 (S)	%			95	70-130	
Triphenylphosphate (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215606 215607

Parameter	Units	215606		215607		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		7034483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						MSD Result
Atrazine	ug/L	<0.10	2	2	1.7	1.4	84	72	70-130	16	30
Benzo(a)pyrene	ug/L	<0.020	2	2	2.1	1.7	104	85	70-130	20	30
bis(2-Ethylhexyl)adipate	ug/L	<0.60	2	2	2.1	1.8	107	90	70-130	17	30

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QUALITY CONTROL DATA

Project: 334503-01

Pace Project No.: 7035390

Parameter	Units	215606			215607			% Rec	% Rec	% Rec	Limits	Max RPD	Max RPD	Qual
		7034483001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
bis(2-Ethylhexyl)phthalate	ug/L	<0.60	2	2	2.6	2.2	123	105	70-130	15	30			
Butachlor	ug/L	<0.10	2	2	1.7	2.0	87	101	70-130	15	30			
Metolachlor	ug/L	<0.10	2	2	1.8	2.5	92	123	70-130	29	30			
Metribuzin	ug/L	<0.50	2	2	1.8	1.5	88	73	70-130	19	30			
Propachlor	ug/L	<0.10	2	2	1.9	11.1	93	554	70-130	143	30	M1,R1		
Simazine	ug/L	<0.070	2	2	1.9	1.3	98	63	70-130	42	30	M1,R1		
1,3-Dimethyl-2-nitrobenzene(S)	%						97	0	70-130		30	S0		
Perylene-d12 (S)	%						98	97	70-130		30			
Pyrene-d10 (S)	%						97	136	70-130		30	S0		
Triphenylphosphate (S)	%						83	77	70-130		30			

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QUALITY CONTROL DATA

Project: 334503-01
 Pace Project No.: 7035390

QC Batch: 405684 Analysis Method: EPA 649.2
 QC Batch Method: EPA 549.2 Analysis Description: 549 HPLC Paraquat Diquat
 Associated Lab Samples: 7035390001

METHOD BLANK: 2215092
 Associated Lab Samples: 7035390001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diquat	ug/L	<0.40	0.40	11/16/17 23:00	

LABORATORY CONTROL SAMPLE: 2215093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	2	1.6	81	70-130	

LABORATORY CONTROL SAMPLE: 2215094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diquat	ug/L	.4	<0.40	78	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2215095 2215098

Parameter	Units	2215095		2215098		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		7035391001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Diquat	ug/L	<0.40	2	2	1.7	1.6	86	79	70-130	8	30 H3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2215097 2215098

Parameter	Units	2215097		2215098		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		7035474001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Diquat	ug/L	<0.40	2	2	1.7	1.7	87	83	70-130	5	30

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QUALIFIERS

Project: 334503-01
Pace Project No.: 7035390

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville
PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.
H3 Sample was received or analysis requested beyond the recognized method holding time.
L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 334503-01

Pace Project No.: 7035380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7035390001	334503-01	EPA 504.1	46150	EPA 504.1	46191
7035390001	334503-01	EPA 505	46262	EPA 505	46356
7035390001	334503-01	EPA 515.3	46614	EPA 515.3	46843
7035390001	334503-01	EPA 531.1	47016		
7035390001	334503-01	EPA 547	407598		
7035390001	334503-01	EPA 549.2	405684	EPA 549.2	406279
7035390001	334503-01	EPA 525.2	46076	EPA 525.2	46320

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WO#: 7035390

Other Samples in Box

CHAIN OF CUSTODY



7035390
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) 14.7
 Sample rec'd on ice? Yes
 Sample set up in 6 hr? Yes
 Properly preserved? Yes
 Within holding times? Yes
 Reviewed by EC

Samples should be brought to the lab ON ICE with a receiving temp of 2 to 6 C

OCL Number	Collection		Matrix	Sample Description/Location	Containers	Preservative	Analysis Required
	Date	Time					
	<u>4/10</u>	<u>1:10</u>		<u>W-3</u>			SOC Testing Table 9C Complete
					2 40ml G	thio	EPA 504
					2 40ml G	thio	EPA 505
					1 250ml G	thio	EPA 504
					2 1L G	sulfite	EPA 525.2
					2 40ml G	thio	EPA 531.1
					3 40ml G	thio	EPA 547 Glyphosate
					1 250ml G	thio	EPA 547 Glyphosate
					1 1L Poly	none	EPA 547 Glyphosate
					1 1L G	none	EPA 547 Glyphosate

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
<u>[Signature]</u>			<u>4/10/11</u>	<u>1:31</u>
Received By:	print	sign	date:	time:
<u>[Signature]</u>			<u>4/10/11</u>	<u>10:05</u>
Received By:	print	sign	date:	time:
Received By:	print	sign	date:	time:

WO#: 7035390

PH: JM2 Due Date: 11/27/17

CLIENT: OCL

Other Samples in Cooler

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Report to: Name

Address
City, State, Zip
Phone

Bill to:

Address
City, State, Zip
Phone

Sample Temp (c) 14.7
Sample rec'd on ice?
Sample set up in 6 hr?
Property preserved?
Within holding times?
Reviewed by:

Samples should be brought to the lab ON ICE
with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Residual	Analysis Required
	11/27/17	14:10	lin			W1-3	2 40ml G	thio		EPA 504
							2 40ml G	thio		EPA 505
							1 250ml G	thio		EPA 515.3
							2 1L G	sulfite		EPA 523.2
							2 40ml G	thio		EPA 531.1
							3 40ml G	thio		EPA 548 Endothal
							1 250ml G	thio		EPA 549 Diquat
							1 1L Poly	none		EPA 1613 Dioxin
							1 1L G	none		

Comments/Special Instructions:

Rush Requested? Client Code: Prepaid?

Sampled By: print sign

date: 11/27/17

time: 1:37

Relinquished By: print sign

date: 11/27/17

time: 1:37

Relinquished By: print sign

date: 11/27/17

time: 1:37

Relinquished By: print sign

date: 11/27/17

time: 1:37



Sample Condition Upo

WO#: 7035390

PM: JM2 Due Date: 11/27/17
CLIENT: OCL

Client Name: OCL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7707 0493 0660

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: TH092

Correction Factor: +0.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.2

Cooler Temperature Corrected (°C): 4.3

Date/Time 5035A kits placed in freezer

Temp should be above freezing in 8.0°C

Date and Initials of person examining contents: JKW/17

USDA Regulated Soil (F/N/A, water sample)

Did samples originate in a quarantine zone within the United States (AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SLWT OIL			
All containers needing preservation have been checked	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #			15.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

OCL number not accurate clear on change custody. OCL number was transcribed to the outside. DIOXIN not indicated on chain of custody

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.01



Sample Condition Upon Receipt

Client Name: OCU

Project

WO#: 7035390

PM: JM2 Due Date: 11/27/17

CLIENT: OCU

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1Z MTO 7K4 03 2051 142

Custody Seal on Cooler/Box Present: Yes No

Seals Intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: 1100J2

Correction Factor: 10.1

Samples on ice, cooling process has begun

Cooler Temperature (°C): 4.9

Cooler Temperature Corrected (°C): 50

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: KB 11/13/17

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SI WT DIL			
All containers needing preservation have been checked	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):			

Field Data Required? Y / N

Client Notification/ Resolution:

Date/Time:

Person Contacted:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145628-1
Client Project/Site: 334503-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 12:41:56 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Paca Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
"	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145628-1	334503-01	Water	11/08/17 12:00	11/16/17 09:20

3

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Job ID: 680-145628-1

Laboratory: TestAmerica Savannah

Narrative

Job Narrative
680-145628-1

Comments

No additional comments.

Receipt

The sample was received on 11/16/2017 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 548.1: The laboratory control sample (LCS) for preparation batch 680-503658 and analytical batch 680-503770 recovered outside control limits for the following analytes: Endothal. Insufficient volume for re-extraction of the samples outside of hold times. Data has been reported.

Method(s) 548.1: The following sample(s) was received past the extraction holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 334503-01 (680-145628-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

4

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Client Sample ID: 334503-01

Lab Sample ID: 680-145628-1

Date Collected: 11/08/17 12:00

Matrix: Water

Date Received: 11/15/17 09:20

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND	H *	10.0		ug/L		11/22/17 09:31	11/22/17 22:28	1

5

QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 680-503658/16-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		10.0		ug/L		11/22/17 09:31	11/22/17 18:21	1

6

Lab Sample ID: LCS 680-503658/17-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	25.0	ND	*	ug/L		7	45 - 125

Lab Sample ID: LLCS 680-503658/18-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503658

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	10.0	ND	*	ug/L		0	50 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

GC/MS Semi VOA

Prep Batch: 503658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145628-1	334503-01	Total/NA	Water	548.1	
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145628-1	334503-01	Total/NA	Water	548.1	503658
MB 680-503658/16-A	Method Blank	Total/NA	Water	548.1	503658
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	503658
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	503658

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Client Sample ID: 334503-01

Lab Sample ID: 680-145628-1

Date Collected: 11/06/17 12:00

Matrix: Water

Date Received: 11/15/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503858	11/22/17 09:31	RKL	TAL SAV
Total/NA	Analysis	548.1		1			503770	11/22/17 22:28	JCK	TAL SAV

Instrument ID: CMSR

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17026		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	08-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	12-31-17
Illinois	NELAP	6	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	08-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30813	08-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	08-30-18
Minnesota	NELAP	6	047-999-345	12-31-17
Mississippi	State Program	4	N/A	08-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2983	10-09-18
New Jersey	NELAP	2	TN865	08-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-148	08-30-18
Ohio VAP	State Program	5	CL0033	07-08-19
Oklahoma	State Program	8	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	88-00585	08-30-18
Rhode Island	State Program	1	LAQ00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	8	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	08-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

9

Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Method	Method Description	Protocol	Laboratory
548.1	Endothal (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/038, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 6102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

10

Chain of Custody



Workorder: 7035390 Workorder Name: 334503-01 Results Requested By: 11/27/2017

Report / Invoice To: Subcontract To: Requested Analysis:

James Murphy
Pace Analytical New York
2190 Technology Drive
Schenectady, NY 12308
Phone (518)346-4592
Email: james.murphy@paceanalytical.com

TA-GA P.O. S/S

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers					LAB USE ONLY	
					1	2	3	4	5		
1	33-500-01	11/6/2017 12:00	7035390001	Drinking						X	
2											
3											
4											
5											

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	<i>James Murphy</i>	11/4/17 18:20	<i>James Murphy</i>	11/15/17				
2								
3								

Comments: NY Samples 2. YCF-C 23.0



Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-145628-1

Login Number: 145628

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactively wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require spitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-145628-1
Client Project/Site: 334503-01

For:
Pace Analytical Services, LLC
2190 Technology Drive
Schenectady, New York 12308

Attn: Mr. James Murphy

Roxanne Cisneros

Authorized for release by:
11/27/2017 12:41:56 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-145628-1	334503-01	Water	11/06/17 12:00	11/15/17 09:20

3

TestAmerica Savannah

Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Job ID: 680-145628-1

Laboratory: TestAmerica Savannah

4

Narrative

Job Narrative
680-145628-1

Comments

No additional comments.

Receipt

The sample was received on 11/15/2017 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 548.1: The laboratory control sample (LCS) for preparation batch 680-503658 and analytical batch 680-503770 recovered outside control limits for the following analytes: Endothal. Insufficient volume for re-extraction of the samples outside of hold times. Data has been reported.

Method(s) 548.1: The following sample(s) was received past the extraction holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 334503-01 (680-145628-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Client Sample ID: 334503-01

Lab Sample ID: 680-145628-1

Date Collected: 11/06/17 12:00

Matrix: Water

Date Received: 11/15/17 09:20

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND	H *	10.0		ug/L		11/22/17 09:31	11/22/17 22:28	1

5

TestAmerica Savannah

QC Sample Results

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Method: 548.1 - EndothalI (GC/MS)

Lab Sample ID: MB 680-503658/16-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EndothalI	ND		10.0		ug/L		11/22/17 09:31	11/22/17 18:21	1

6

Lab Sample ID: LCS 680-503658/17-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
EndothalI	25.0	ND	*	ug/L		7	45 - 125

Lab Sample ID: LLCS 680-503658/18-A
Matrix: Water
Analysis Batch: 503770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503658

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
EndothalI	10.0	ND	*	ug/L		0	50 - 150

QC Association Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

GC/MS Semi VOA

Prep Batch: 503658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145628-1	334503-01	Total/NA	Water	548.1	
MB 680-503658/18-A	Method Blank	Total/NA	Water	548.1	
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	

Analysis Batch: 503770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-145628-1	334503-01	Total/NA	Water	548.1	503658
MB 680-503658/18-A	Method Blank	Total/NA	Water	548.1	503658
LCS 680-503658/17-A	Lab Control Sample	Total/NA	Water	548.1	503658
LLCS 680-503658/18-A	Lab Control Sample	Total/NA	Water	548.1	503658

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Lab Chronicle

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Client Sample ID: 334503-01

Lab Sample ID: 680-145628-1

Date Collected: 11/06/17 12:00

Matrix: Water

Date Received: 11/15/17 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	548.1			100 mL	1 mL	503658	11/22/17 09:31	RKL	TAL SAV
Total/NA	Analysis	548.1		1			503770	11/22/17 22:28	JCK	TAL SAV
Instrument ID: CMSR										

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

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Accreditation/Certification Summary

Client: Pace Analytical Services, LLC
 Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10842	03-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	8	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87368	08-30-18
Georgia	State Program	4	E87358(FI)/453.07(A2L A)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17
Kentucky (UST)	State Program	4	19	08-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	8	30813	08-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	318	03-31-18
Massachusetts	State Program	1	M-TN032	08-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	08-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2883	10-09-18
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-148	08-30-18
Ohio VAP	State Program	5	CL0033	07-08-18
Oklahoma	State Program	8	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	88-00585	08-30-18
Rhode Island	State Program	1	LAC00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00308	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	08-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-17

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Method Summary

Client: Pace Analytical Services, LLC
Project/Site: 334503-01

TestAmerica Job ID: 680-145628-1

Method	Method Description	Protocol	Laboratory
548.1	Endothal (GC/MS)	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Chain of Custody



Workorder: 7035390 Workorder Name: 334503-01 Results Requested By: 11/27/2017

Report / Invoice To

Subcontract To

James Murphy
 Pace Analytical New York
 2190 Technology Drive
 Schenectady, NY 12308
 Phone (518)346-4592
 Email: james.murphy@pacelabs.com

P.O.

TA-6A

State of Sample Origin: NY

Preserved Containers

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Received By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	33-503-01	11/6/2017 12:00	7035390001	Drinking	<i>[Signature]</i>	11/14/17 15:24	<i>[Signature]</i>	11/15/17 05:20				
2												
3												
4												
5												

Comments

Transfers Released By: *[Signature]* Date/Time: 11/14/17 15:24 Received By: *[Signature]* Date/Time: 11/15/17 05:20

1 *[Signature]* 11/14/17 15:24 *[Signature]* 11/15/17 05:20

2 *[Signature]* 11/14/17 15:24 *[Signature]* 11/15/17 05:20

3 *[Signature]* 11/14/17 15:24 *[Signature]* 11/15/17 05:20

NY Samples 2.8KCF+0.23.0

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N



Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 680-146628-1

Login Number: 145628

List Source: TestAmerica Savannah

List Number: 1

Creator: Edwards, Jessica R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math>< 8\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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OCL Analytical Services

35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Project
Date Received 11/6/2017
Date Complete 12/4/2017
Date Printed 12/4/2017

Sample Number 334502-01
Federal ID
Description
Location W-3
Sample Point

Date Sampled 11/06/17 12:00
Sampler B. Carr
Matrix Drinking Water

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
ASBESTOS								
Asbestos in Water	see attached						OL	
Radiologicals								
Gross Alpha	see attached			15			PG	
Gross Beta	see attached						PG	
Radium 226	see attached			5			PG	
Radium 228	see attached			5			PG	
Uranium, U	see attached	ug/L		30			PG	
RADON								
Radon	see attached						PG	

attach_01
attach_02

Approved By 

Lisa McClinton
Lab Manager

The reported results relate only to the sample identified above

AmeriSci Job #: 217113196
 Client Name: OCL Analytical Services

Table I
 Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)
 KCE

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celsius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	534502-01 W-3 Sample #03	0.025	5	NSD	NSD	0.14	<0.14	<0.14	—

*NAD/NSD = no asbestos detected, NA = not analyzed. NYSDOH ELAP LAB ID 11480 (does not cover waste water analysis).

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1) where fiber criteria >10 microns for 100.2, 5:1 aspect ratio; organic rich waste water prepared by EPA-600/4-80-005. MF/L = million fibers per liter. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRUD area analyzed.

Reviewed By: *[Signature]* ; Analyzed By: *ABhyf-Mud* Date: 11/15/2017
 Aleksandr Barenholts



Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

November 08, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334502
Pace Project No.: 30235236

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334502
Pace Project No.: 30235238

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4088

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9984C

Wisconsin Certification

Wyoming Certification #: BTMS-L

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

SAMPLE SUMMARY

Project: 334502
Pace Project No.: 30235238

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235238001	334502-01	Drinking Water	11/06/17 12:00	11/07/17 09:45

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

SAMPLE ANALYTE COUNT

Project: 334502
Pace Project No.: 30235236

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235238001	334502-01	SM7600RnB-07	NJV	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334502
Pace Project No.: 30235236

Method: SM7500RnB-07
Description: 7500RnB Radon
Client: OCL Analytical Services
Date: November 08, 2017

General Information:

1 sample was analyzed for SM7500RnB-07. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5800

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334502
Pace Project No.: 30235236

Sample: 334502-01 Lab ID: 30235236001 Collected: 11/08/17 12:00 Received: 11/07/17 09:45 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM7500RnB-07	6,177 ± 126 (45.5) C:NA T:NA	pCi/L	11/08/17 01:43	10043-92-2	

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Pace Analytical Services, LLC
 1838 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334502
 Pace Project No.: 30235238

QC Batch: 278240	Analysis Method: SM7500RnB-07
QC Batch Method: SM7500RnB-07	Analysis Description: 7500Rn B Radon
Associated Lab Samples: 30235236001	

METHOD BLANK: 1386889	Matrix: Water
Associated Lab Samples: 30235236001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon	-14.7 ± 19.1 (34.2) C:NA T:NA	pCi/L	11/07/17 22:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 334502
Pace Project No.: 30235238

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence Interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (C) 12.0
 Sample rec'd on ice? ✓
 Sample set up in 6 hr? ✓
 Properly preserved? ✓
 Within holding times? ✓
 Reviewed by [Signature]

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCN Number	Collection Date Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Analysis Required
331507-01	7/1/12				(A)-3	1 LP	HNO3	Trace Metals
						1 LP	HNO3	Cross Data
						1 LP	HNO3	Radonium 226
						1 LP	HNO3	Radonium 228
						1 LP	HNO3	Uranium
						2 40mm	none	Radon in Water
						1 LP	none	Asbestos

NO# 30235236



Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
[Signature]			11/6/17	1:35	[Signature]			11/6/17	1:35
Relinquished By:	print	sign	date:	time:	Relinquished By:	print	sign	date:	time:
[Signature]			11/6/17	1:30	[Signature]			11/7/17	0:45
Relinquished By:	print	sign	date:	time:	Relinquished By:	print	sign	date:	time:
[Signature]					[Signature]				

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL

Project # 30235236

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Label	<u>ZH</u>
LIMS Login	<u>PNV</u>

Tracking #: 1Z7747180197219684

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None °C Final Temp: _____ °C

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 11/7/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):	/			7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used: -Pace Containers Used:	/			10.
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.			/	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			/	
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/Time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>8mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr	/			Initial when completed: <u>ZH</u> Date: <u>11/7/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Analytical Services, LLC
1638 Roseytown Road - Suits 2,3,4
Greensburg, PA 15601
(724)850-5600

December 01, 2017

Ms. Lisa McClinton
OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

RE: Project: 334502
Pace Project No.: 30235531

Dear Ms. McClinton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 334502
Pace Project No.: 30235531

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0894
Delaware Certification
Florida/TNI Certification #: E67683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42708
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 334502
Pace Project No.: 30235531

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30235531001	334502-01	Drinking Water	11/08/17 12:00	11/09/17 09:50

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 334502
Pace Project No.: 30235531

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30235531001	334502-01	EPA 900.0	NJV	2
		EPA 903.1	KAC	1
		EPA 904.0	VAL	1
		ASTM D5174-97	RMK	1

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 334502
Pace Project No.: 30235531

Method: EPA 900.0
Description: 900.0 Gross Alpha/Beta
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1838 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-6600

PROJECT NARRATIVE

Project: 334502
Pace Project No.: 30235531

Method: EPA 903.1
Description: 903.1 Radium 226
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334502
Pace Project No.: 30236531

Method: EPA 904.0
Description: 904.0 Radium 228
Client: OCL Analytical Services
Date: December 01, 2017

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 334502
Pace Project No.: 30235531

Method: ASTM D5174-97
Description: D517497 Total Uranium KPA
Client: OCL Analytical Services
Date: December 01, 2017

General Information:
1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:
This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 334502
 Pace Project No.: 30235531

Sample: 334502-01 Lab ID: 30235531001 Collected: 11/08/17 12:00 Received: 11/09/17 09:50 Matrix: Drinking Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	-0.568 ± 0.394 (2.11) C:NA T:NA	pCi/L	11/20/17 08:24	12587-46-1	
Gross Beta	EPA 900.0	2.21 ± 0.913 (1.56) C:NA T:NA	pCi/L	11/20/17 08:24	12587-47-2	
Radium-226	EPA 903.1	0.240 ± 0.283 (0.447) C:NA T:81%	pCi/L	11/27/17 13:30	13982-63-3	
Radium-228	EPA 904.0	0.582 ± 0.447 (0.900) C:69% T:70%	pCi/L	11/16/17 12:03	15262-20-1	
Total Uranium	ASTM D5174-97	0.249 ± 0.009 (0.193) C:NA T:NA	ug/L	11/30/17 17:33	7440-61-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Rossetown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334502
 Pace Project No.: 30235531

QC Batch: 278839	Analysis Method: ASTM D5174-97
QC Batch Method: ASTM D5174-97	Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 30235531001	

METHOD BLANK: 1389524	Matrix: Water
Associated Lab Samples: 30235531001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Total Uranium	0.020 ± 0.002 (0.193) C:NA T:NA	ug/L	11/21/17 13:47	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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 1838 Rosoytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334502
 Pace Project No.: 30235531

QC Batch: 278683	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30235531001	

METHOD BLANK: 1388639	Matrix: Water
Associated Lab Samples: 30235531001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0453 ± 0.235 (0.488) C:NA T:93%	pCi/L	11/27/17 12:49	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
 1838 Rosaytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334502
 Pace Project No.: 30235531

QC Batch: 278885	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30235531001	

METHOD BLANK: 1388641	Matrix: Water
Associated Lab Samples: 30235531001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.557 ± 0.373 (0.712) C:79% T:85%	pCi/L	11/16/17 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
 1638 Roseylown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL - RADIOCHEMISTRY

Project: 334502
 Pace Project No.: 30235531

QC Batch: 278843 Analysis Method: EPA 900.0
 QC Batch Method: EPA 900.0 Analysis Description: 900.0 Gross Alpha/Beta
 Associated Lab Samples: 30235531001

METHOD BLANK: 1369531 Matrix: Water
 Associated Lab Samples: 30235531001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.879 ± 0.931 (1.87) C:NA T:NA	pCi/L	11/20/17 08:11	
Gross Beta	2.15 ± 1.10 (1.85) C:NA T:NA	pCi/L	11/20/17 08:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 334502
Pace Project No.: 30235531

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Act - Activity
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)
(MDC) - Minimum Detectable Concentration
Trac - Tracer Recovery (%)
Carr - Carrier Recovery (%)
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) 12.0
 Sample rec'd on ics? ✓
 Sample set up in 6 hr? ✓
 Properly preserved? ✓
 Within holding times? ✓
 Reviewed by TR

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	Matrix	Sample Description/Location	Containers Not/Type	Preservative	Analysis Required
5331507-0	11/17	12N				(A)-3	1 LP	HNO3	Gross Alpha
							1 LP	HNO3	Gross Beta
							1 LP	HNO3	Radium 226
							1 LP	HNO3	Radium 228
							1 LP	HNO3	Uranium
							2 40mm	none	Dissolved in Water
							1 LP	none	TRACEDOS

NO#: 30235531

 30235531

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Received By:	print	sign	date:	time:
Received By:			11/17/17	1:37
Relinquished By:			11/17/17	1:50
Relinquished By:				
Relinquished By:				

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: OCL Project # 30235531

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1Z2747180396548657

Label ZH
LIMS Login ANV

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used NIA Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp _____ °C Correction Factor _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ZH 11/9/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:	/			6.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			18. <u>PHZ</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	/			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>ZH</u> Date/Time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>11/9/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCL
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCL

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Residual	Analysis Required
	11/14/30		S-3	500 ml P	none		pH
				300ml G	kit		DO
				1L P	none		BOD

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____
Relinquished By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____
Relinquished By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____
Relinquished By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCG
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCG

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
	11/16	11:30				S-3	500ml - P	none		Alkalinity
							500ml - P	none		Nitrate, nitrite
							500ml - P	none		pH, odor, turbidity, color, Ca hardness, corrosivity
							1L P	none		TDS, fluoride, chloride
							1L P	HNO3		As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu,
										Fe, Mn, Na, Zn, Sb, Be, Ni, Ti
							500ml - P	none		Sulfate
							250ml P	NaOH		Cyanide, free
							2-40ml vial	HCl		VOC + MTBE
							2x44mmG	thio		THM
							250ml G	NH4Cl		HAA

1/16/11

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCC
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCC

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab **ON ICE**
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Dist	Analysis Required
	11/14	11:30				S-3	1 LP	HNO3		Gross Alpha
							1 LP	HNO3		Gross Beta
							1 LP	HNO3		Radium 226
							1 LP	HNO3		Radium 228
							1 LP	HNO3		Uranium
							2 40mm	none		Radon in Water
							1 LP	none		ASBESTOS

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: <u>[Signature]</u>	print sign	date: 11/14/17	time: 1:30	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

**Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C**

OCL Number	Collection Date	Time	comp	grab	Matrix	Sample Description/Location	Containers Nolyte	Preser- vative	Analysis Required
	11/14	11:30				S-3	2 40ml G	thio	EPA 504
							2 40ml G	thio	EPA 505
							1 250ml G	thio	EPA 515.3
							2 1L G	sulfite	EPA 525.2
							2 40ml G	thio	EPA 531.1
							3 40ml G	thio	EPA 547 Glyphosate
							1 250ml G	thio	EPA 548 Endothall
							1 1L Poly	none	EPA 549 Diquat
							1 1L G	none	EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: <u>[Signature]</u>	print sign	date: 11/14/17	print sign	date: _____
Relinquished By: _____	print sign	time: 1:30	print sign	time: _____
Relinquished By: _____	print sign	date: _____	print sign	date: _____
Relinquished By: _____	print sign	time: _____	print sign	time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name	KCE
Address	
City, State, Zip	
Phone	

Bill to:

KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required
	11/7	12:30				WATER L-1	500 ml P	none		pH
							300ml G	kit		DO
							1L P	none		BOD
							100ml Au			FECAL

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By:	print	date:	11/7/17	print	date:
	sign	time:	2P	sign	time:
Relinquished By:	print	date:		print	date:
	sign	time:		sign	time:
Relinquished By:	print	date:		print	date:
	sign	time:		sign	time:
Relinquished By:	print	date:		print	date:
	sign	time:		sign	time:

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCCL Number	Collection Date	Collection Time	Comp	Mat	Sample Description/Location	Containers Notype	Preservative	Analysis Required
	11/7	12:30			<u>WATER L-1</u>	500ml - P	none	Alkalinity
						500ml - P	none	Nitrate, nitrite
						500ml - P	none	pH, odor, turbidity, color, Ca hardness, corrosivity
						1L P	none	TDS, fluoride, chloride
						1L P	HNO3	As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu,
						500ml - P	none	Fe, Mn, Na, Zn, Sb, Be, Ni, Ti
						250ml P	NaOH	Sulfate
						2-40ml vial	HCl	Cyanide, free
						2x44mmG	litio	VOC + MTBE
						250ml G	NH4Cl	THM
								HAA

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: <u>[Signature]</u>	print sign	date: 11/7/17	time: 2P	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1914

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	grab	comp	Sample Description/Location	Containers Qty/type	Preservative	Cl. Resid.	Analysis Required
	11/7	12:30				XXXXXX L-1	1 LP	HNO3		Gross Alpha
							1 LP	HNO3		Gross Beta
							1 LP	HNO3		Radium 226
							1 LP	HNO3		Radium 228
							1 LP	HNO3		Uranium
							2 40mm	none		Radon in Water
							1 LP	none		ASBESTOS

Comments/Special Instructions: _____ Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: <u>[Signature]</u>	print sign	date: 11/7/15	date: time:
Relinquished By: <u>[Signature]</u>	print sign	date: 11/7/15	date: time:
Relinquished By: <u>[Signature]</u>	print sign	date: 11/7/15	date: time:
Relinquished By: <u>[Signature]</u>	print sign	date: 11/7/15	date: time:

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KOE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KOE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	grab	comp	Sample Description/Location	Containers No/type	Preser- vative	Analysis Required
	11/7	12:30				XXXXX L-1			SOC Testing Table 9C Complete
							2 40ml G	thio	EPA 504
							2 40ml G	thio	EPA 505
							1 250ml G	thio	EPA 515.3
							2 1L G	sulfite	EPA 525.2
							2 40ml G	thio	EPA 531.1
							3 40ml G	thio	EPA 547 Glyphosate
							1 250ml G	thio	EPA 548 Endothall
							1 1L Poly	none	EPA 549 Diquat
							1 1L G	none	EPA 1613 Dioxin

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By:	print sign	date: time:	Received By:	print sign	date: time:
Relinquished By:	print sign	date: time:	Received By:	print sign	date: time:
Relinquished By:	print sign	date: time:	Received By:	print sign	date: time:
Relinquished By:	print sign	date: time:	Received By:	print sign	date: time:

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KOE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KOE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Collection Time	Comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Resid	Analysis Required
	11/10	10:30				L-2	2 40ml G	thio		EPA 504
							2 40ml G	thio		EPA 505
							1 250ml G	thio		EPA 515.3
							2 1L G	sulfite		EPA 525.2
							2 40ml G	thio		EPA 531.1
							3 40ml G	thio		EPA 547 Glyphosate
							1 250ml G	thio		EPA 548 Endothall
							1 1L Poly	none		EPA 549 Diquat
							1 1L G	none		EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By:	print	date:	print	date:
	sign	time:	sign	time:
Relinquished By:	print	date:	print	date:
	sign	time:	sign	time:
Relinquished By:	print	date:	print	date:
	sign	time:	sign	time:
Relinquished By:	print	date:	print	date:
	sign	time:	sign	time:

Bob Cohen
 11/10/17
 1:40

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
	11/11/03	10:30				L-2	1 LP	HNO3		Gross Alpha
							1 LP	HNO3		Gross Beta
							1 LP	HNO3		Radium 226
							1 LP	HNO3		Radium 228
							1 LP	HNO3		Uranium
							2 40mm	none		Radon in Water
							1 LP	none		ASBESTOS

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: _____	print _____	sign _____	date: 11/19/17	time: 1:40	Received By: _____	print _____	sign _____	date: _____	time: _____
Relinquished By: _____	print _____	sign _____	date: _____	time: _____	Received By: _____	print _____	sign _____	date: _____	time: _____
Relinquished By: _____	print _____	sign _____	date: _____	time: _____	Received By: _____	print _____	sign _____	date: _____	time: _____
Relinquished By: _____	print _____	sign _____	date: _____	time: _____	Received By: _____	print _____	sign _____	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Collection Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
	1/14	10:30		L-2	500ml - P	none		Alkalinity
					500ml - P	none		Nitrate, nitrite
					500ml - P	none		pH, odor, turbidity, color, Ca hardness, corrosivity
					1L P	none		TDS, fluoride, chloride
					1L P	HNO3		As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu,
					500ml -P	none		Fe, Mn, Na, Zn, Sb, Be, Ni, Ti
					250ml P	NaOH		Sulfate
					2-40ml vial	HCl		Cyanide, free
					2x44mmG	Ithio		VOC + MTBE
					250ml G	NH4Cl		THM
					10ml	thio		HAA

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: <u>[Signature]</u>	print sign	date: 1/14/17	time: 1:35	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection		matrix	grab	comp	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
	Date	Time								
	11/19	10:30				L-2	500 ml P	none		pH
							300ml G	kit		DO
							1L P	none		BOD

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By:	print sign	date: time:	11/19/17 1:55	Received By:	print sign	date: time:	
Relinquished By:	print sign	date: time:		Received By:	print sign	date: time:	
Relinquished By:	print sign	date: time:		Received By:	print sign	date: time:	
Relinquished By:	print sign	date: time:		Received By:	print sign	date: time:	

CHAIN OF CUSTODY

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
	11/19/2020		L-3	1 LP	HNO3		Gross Alpha
				1 LP	HNO3		Gross Beta
				1 LP	HNO3		Radium 226
				1 LP	HNO3		Radium 228
				1 LP	HNO3		Uranium
				2 40mm	none		Radon in Water
				1 LP	none		ASBESTOS

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: <u>[Signature]</u>	print sign	date: 11/19/20	time: 1:35	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: KCB
 Name KCB
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCB

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers Nottle	Preservative	Analysis Required
	11/14	13:30				L-3	2 40ml G	thio	EPA 504
							2 40ml G	thio	EPA 505
							1 250ml G	thio	EPA 515.3
							2 1L G	sulfite	EPA 525.2
							2 40ml G	thio	EPA 531.1
							3 40ml G	thio	EPA 547 Glyphosate
							1 250ml G	thio	EPA 548 Endothall
							1 1L Poly	none	EPA 549 Diquat
							1 1L G	none	EPA 1613 Dioxin

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: [Signature] date: 11/14/17 time: 13:35
 Relinquished By: _____ date: _____ time: _____
 Relinquished By: _____ date: _____ time: _____
 Relinquished By: _____ date: _____ time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KCE
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: KCE

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	Sample Description/Location	Containers Notype	Preservative	Dist	Analysis Required
	6/14	12:30		L-3	500ml - P	none		Alkalinity
					500ml - P	none		Nitrate, nitrite
					500ml - P	none		pH, odor, turbidity, color, Ca hardness, corrosivity
					1L P	none		TDS, fluoride, chloride
					1L P	HNO3		As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu,
					500ml - P	none		Fe, Mn, Na, Zn, Sb, Be, Ni, Ti
					250ml P	NaOH		Sulfate
					2-40ml vial	HCl		Cyanide, free
					2x44mmG	Ihio		VOC + MTBE
					250ml G	NH4Cl		THM
					100 / 100			HAA

Comments/Special Instructions:

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: _____	print sign	date: 11/14/17	time: 1:20p	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name CCS
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: CCS

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	grab	comp	Sample Description/Location	Containers No/type	Preservative	Resid	Analysis Required
	11	10/27/08				L-3	500 ml P	none		pH
							300ml G kit			DO
							1L P	none		BOD

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? _____

Sampled By: _____	print	date: 11/18/07	print	date: _____
_____	sign	time: 1:30	sign	time: _____
Relinquished By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____
Relinquished By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____
Relinquished By: _____	print	date: _____	print	date: _____
_____	sign	time: _____	sign	time: _____

Round 2

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:48
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339382-01
 Project:
 Description:
 Location: L-1
 Sample Point:

Date Sampled: 04/04/2018 8:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Qual's.
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
2-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
4-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
p-Isopropyltoluene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Acrolein	8260C	<2.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Acrylonitrile	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Benzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Bromobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Bromoform	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Bromomethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Carbon tetrachloride	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Chlorobenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Bromochloromethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Chlorodibromomethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Chloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Chloroform	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
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Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:48
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339382-01
 Project:
 Description:
 Location: L-1
 Sample Point:

Date Sampled: 04/04/2018 8:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Chloromethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Dibromomethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Bromodichloromethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Ethylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Hexachlorobutadiene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Isopropylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Methylene chloride	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
n-Butylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
n-Propylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Naphthalene	8260C	<5.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
sec-Butylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Styrene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
tert-Butylbenzene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Tetrachloroethene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Toluene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Trichloroethene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

OCL Analytical Services
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Bloomingsburg NY 12721

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Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:48
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339382-01
 Project:
 Description:
 Location: L-1
 Sample Point:

Date Sampled: 04/04/2018 8:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Vinyl chloride	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
Xylenes, Total	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1-Dichloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1-Dichloroethene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1-Dichloropropene	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2-Dichloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,3-Dichloropropane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
2,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	04/10/18 3:00	04/10/18 3:00		U
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		04/10/18 0:00	JR	
Color							
Color (apparent)	SM22 2120B-01	25.0	NTU's		04/04/18 14:05	JR	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

04/30/2018

Lab No: 

EC: 

Page 3 of 6

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
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Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:48
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339382-01
 Project:
 Description:
 Location: L-1
 Sample Point:

Date Sampled: 04/04/2018 8:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals
CORR							
Alkalinity as CaCO3	SM22 2320B-97	<10.0	mg/L		04/10/18 12:00	AM	
Hardness as CaCO3, Calcium	SM22 3500CaB-97	<10.0	mg/L		04/11/18 11:15	AM	
pH	SM20 2330H+B	6.59			04/04/18 13:30	JR	H3
pH Temperature	SM2550B	14.3	°C		04/04/18 13:30	JR	N
Corrosivity Index (LI)	SM22 2330	-3.83			04/11/18 14:32	AM	
FEMN							
Iron, Fe	EPA 200.7	0.0680	mg/L	04/08/18 10:27	04/13/18 6:36		
Manganese, Mn	EPA 200.7	0.0940	mg/L	04/08/18 10:27	04/13/18 6:36		
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		04/10/18 0:00	JR	
NA							
Sodium, Na	EPA 200.7	0.610	mg/L	04/08/18 10:27	04/13/18 6:36		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	0.0535	mg/L		04/05/18 0:00	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.010	mg/L		04/04/18 14:00	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			04/04/18 14:10	JR	OD
TDS							
Solids, Dissolved Total	SM22 2540C-97	94.0	mg/L		04/05/18 15:20	JR	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

04/30/2018

Lab No: 

EC: 

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 Description:
 Location: L-1
 Sample Point:

Date Sampled: 04/04/2018 8:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
TURB							
Turbidity	SM22 2130B-01	0.935	ntu		04/04/18 14:50	JR	

Method 200.7 and 8260C analyses by Envirotest Laboratories #10142

Approved By *Lisa McClinton*
 Lisa McClinton
 Lab Manager

Sample Number: 339382-01
 The reported results relate only to the sample identified above.

- Qualifiers**
- H3 = This analysis is no longer ELAP certified.
 - N = Parameter is not NELAP certified
 - OD = Odor sample not received in Glass container.

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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Date Received: 04/04/2018 12:10
Date Complete: 04/30/2018 9:48
Date Reported: 04/30/2018 10:43
Date Printed: 04/30/2018 10:43

Sample Number: 339382-02
Project:
Description:
Location: L-1
Sample Point:

Date Sampled: 04/04/2018 8:30
Sampled By: Client
Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform Fecal MF							
Fecal Coliform, MF	SM9222D-97	<5	cfu/100ml		04/04/18 15:00	JR	

Method 200.7 and 8260C analyses by Envirotest Laboratories #10142

Approved By



Lisa McClinton
Lab Manager

Sample Number: 339382-02

The reported results relate only to the sample identified above.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

04/30/2018

Lab No: 

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Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:43
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339380-01
 Project:
 Description:
 Location: L-2
 Sample Point:

Date Sampled: 04/04/2018 9:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
2-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
4-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
p-Isopropyltoluene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Acrolein	8260C	<2.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Acrylonitrile	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Benzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Bromobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Bromoform	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Bromomethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Carbon tetrachloride	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Chlorobenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Bromochloromethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Chlorodibromomethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Chloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Chloroform	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U

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Sample Number: 339380-01
 Project:
 Description:
 Location: L-2
 Sample Point:

Date Sampled: 04/04/2018 9:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals
8260							
Chloromethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Dibromomethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Bromodichloromethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Ethylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Hexachlorobutadiene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Isopropylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Methylene chloride	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
n-Butylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
n-Propylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Naphthalene	8260C	<5.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
sec-Butylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Styrene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
tert-Butylbenzene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Tetrachloroethene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Toluene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Trichloroethene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U

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Sample Number: 339380-01
 Project:
 Description:
 Location: L-2
 Sample Point:

Date Sampled: 04/04/2018 9:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Vinyl chloride	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
Xylenes, Total	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1-Dichloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1-Dichloroethene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1-Dichloropropene	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2-Dichloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,3-Dichloropropane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
2,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	04/10/18 1:33	04/10/18 1:33		U
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		04/10/18 0:00	JR	
Color							
Color (apparent)	SM22 2120B-01	35.0	NTU's		04/04/18 14:05	JR	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

04/30/2018

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 Location: L-2
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Date Sampled: 04/04/2018 9:30
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
CORR							
Alkalinity as CaCO3	SM22 2320B-97	<10.0	mg/L		04/10/18 12:00	AM	
Hardness as CaCO3, Calcium	SM22 3500CaB-97	<10.0	mg/L		04/11/18 11:15	AM	
pH	SM20 2330H+B	7.07			04/04/18 13:30	JR	H3
pH Temperature	SM2550B	14.7	°C		04/04/18 13:30	JR	N
Corrosivity Index (LI)	SM22 2330	-3.41			04/11/18 14:29	AM	
FEMN							
Iron, Fe	EPA 200.7	0.380	mg/L	04/08/18 10:27	04/13/18 6:26		
Manganese, Mn	EPA 200.7	0.0720	mg/L	04/08/18 10:27	04/13/18 6:26		
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		04/10/18 0:00	JR	
NA							
Sodium, Na	EPA 200.7	1.20	mg/L	04/08/18 10:27	04/13/18 6:26		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	<0.0500	mg/L		04/05/18 0:00	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.010	mg/L		04/04/18 13:20	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			04/04/18 14:10	JR	OD
TDS							
Solids, Dissolved Total	SM22 2540C-97	164	mg/L		04/05/18 15:20	JR	

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Description:
Location: L-2
Sample Point:

Date Sampled: 04/04/2018 9:30
Sampled By: Client
Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
TURB							
Turbidity	SM22 2130B-01	1.36	ntu		04/04/18 14:50	JR	

Method 200.7 and 8260C analyses by Envirotest Laboratories #10142

Approved By 
Lisa McClinton
Lab Manager

Sample Number: 339380-01
The reported results relate only to the sample identified above.

- Qualifiers**
- H3 = This analysis is no longer ELAP certified.
 - N = Parameter is not NELAP certified
 - OD = Odor sample not received in Glass container.

OCL - OCL Analytical Services ELAP# 10510
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Sample Number: 339380-02
Project:
Description:
Location: L-2
Sample Point:

Date Sampled: 04/04/2018 9:30
Sampled By: Client
Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform Fecal MF							
Fecal Coliform, MF	SM9222D-97	<5	cfu/100ml		04/04/18 15:00	JR	

Method 200.7 and 8260C analyses by Envirotest Laboratories #10142

Sample Number: 339380-02

The reported results relate only to the sample identified above.

Approved By



Lisa McClinton
Lab Manager

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Date Received: 04/04/2018 12:10
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 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339379-01
 Project:
 Description:
 Location: S-3
 Sample Point:

Date Sampled: 04/04/2018 10:00
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
2-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
4-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
p-Isopropyltoluene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Acrolein	8260C	<2.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Acrylonitrile	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Benzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Bromobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Bromoform	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Bromomethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Carbon tetrachloride	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Chlorobenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Bromochloromethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Chlorodibromomethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Chloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Chloroform	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U

OCL - OCL Analytical Services ELAP# 10510
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Sample Number: 339379-01
 Project:
 Description:
 Location: S-3
 Sample Point:

Date Sampled: 04/04/2018 10:00
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Chloromethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Dibromomethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Bromodichloromethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Ethylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Hexachlorobutadiene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Isopropylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Methylene chloride	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
n-Butylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
n-Propylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Naphthalene	8260C	<5.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
sec-Butylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Styrene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
tert-Butylbenzene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Tetrachloroethene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Toluene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Trichloroethene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U

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KC Engineering and Land Surveying
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Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:42
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339379-01
 Project:
 Description:
 Location: S-3
 Sample Point:

Date Sampled: 04/04/2018 10:00
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Vinyl chloride	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
Xylenes, Total	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1-Dichloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1-Dichloroethene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1-Dichloropropene	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2-Dichloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,3-Dichloropropane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
2,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	04/10/18 12:50	04/10/18 12:50		U
CHLORIDE							
Chloride	SM22 4500CL-C-97	11.2	mg/L		04/10/18 0:00	JR	
Color							
Color (apparent)	SM22 2120B-01	35.0	NTU's		04/04/18 14:05	JR	

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04/30/2018

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Sample Number: 339379-01
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 Description:
 Location: S-3
 Sample Point:

Date Sampled: 04/04/2018 10:00
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
CORR							
Alkalinity as CaCO3	SM22 2320B-97	<10.0	mg/L		04/10/18 12:00	AM	
Hardness as CaCO3, Calcium	SM22 3500CaB-97	<10.0	mg/L		04/11/18 11:15	AM	
pH	SM20 2330H+B	7.39			04/04/18 13:30	JR	H3
pH Temperature	SM2550B	14.3	°C		04/04/18 13:30	JR	N
Corrosivity Index (LI)	SM22 2330	-3.58			04/11/18 0:00	AM	
FEMN							
Iron, Fe	EPA 200.7	0.110	mg/L	04/08/18 10:27	04/13/18 6:20		
Manganese, Mn	EPA 200.7	0.0240	mg/L	04/08/18 10:27	04/13/18 6:20		
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		04/10/18 0:00	JR	
NA							
Sodium, Na	EPA 200.7	7.80	mg/L	04/08/18 10:27	04/13/18 6:20		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	<0.0500	mg/L		04/05/18 0:00	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.010	mg/L		04/04/18 13:20	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			04/04/18 14:10	JR	OD
TDS							
Solids, Dissolved Total	SM22 2540C-97	37.0	mg/L		04/05/18 15:20	JR	

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Project:
Description:
Location: S-3
Sample Point:

Date Sampled: 04/04/2018 10:00
Sampled By: Client
Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Qual's.
TURB							
Turbidity	SM22 2130B-01	0.668	ntu		04/04/18 14:50	JR	

Method 8260C and 200.8 analyses by Envirotest Laboratories #10142

Approved By

Lisa McClinton
Lab Manager

Sample Number: 339379-01

The reported results relate only to the sample identified above.

Qualifiers

- H3 = This analysis is no longer ELAP certified.
- N = Parameter is not NELAP certified
- OD = Odor sample not received in Glass container.
- U = The analyte was analyzed for but not detected at or above the stated limit.

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Date Received: 04/04/2018 12:10
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Sample Number: 339379-02
 Project:
 Description:
 Location: S-3
 Sample Point:

Date Sampled: 04/04/2018 10:00
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform Fecal MF							
Fecal Coliform, MF	SM9222D-97	5	cfu/100ml		04/04/18 15:00	JR	

Approved By



 Lisa McClinton
 Lab Manager

Sample Number: 339379-02

The reported results relate only to the sample identified above.

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Date Received: 05/04/2018 11:40
 Date Complete: 05/23/2018 12:11
 Date Reported: 05/23/2018 16:12
 Date Printed: 05/23/2018 16:12

Sample Number: 340257-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W-1
 Sample Point:

Date Sampled: 05/04/2018 10:30
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
2-Chlorotoluene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
4-Chlorotoluene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
p-Isopropyltoluene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Acrolein	8260C	<2.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Acrylonitrile	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Benzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Bromobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Bromoform	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Bromomethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Carbon tetrachloride	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Chlorobenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Bromochloromethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Chlorodibromomethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Chloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Chloroform	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U

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Sample Number: 340257-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W-1
 Sample Point:

Date Sampled: 05/04/2018 10:30
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Chloromethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Dibromomethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Bromodichloromethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Ethylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Hexachlorobutadiene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Isopropylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Methylene chloride	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
n-Butylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
n-Propylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Naphthalene	8260C	<5.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
sec-Butylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Styrene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
tert-Butylbenzene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Tetrachloroethene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Toluene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Trichloroethene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U

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Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Vinyl chloride	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
Xylenes, Total	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1-Dichloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1-Dichloroethene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1-Dichloropropene	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2-Dichloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2-Dichloropropane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,3-Dichloropropane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
2,2-Dichloropropane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	05/09/18 6:34	05/09/18 6:34		U
ALK							
Alkalinity as CaCO3	SM22 2320B-97	34.0	mg/L		05/08/18 0:00	AM	
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		05/08/18 0:00	JR	

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 Project:
 Description: KC Engineering and Land Surveying
 Location: W-1
 Sample Point:

Date Sampled: 05/04/2018 10:30
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform PA							
Total Coliform(ONPG)	SM20 9223B-97 Colilert	Absence	per 100mL		05/04/18 15:45	AM	
E.coli (ONPG)	SM20 9223B-97 Colilert	Absence	per 100mL		05/04/18 15:45	AM	
COLOR							
Color (apparent)	SM22 2120B-01	15.0	CU's		05/04/18 12:20	JR	
pH	SM20 4500H+B	6.16			05/04/18 12:20	JR	N
CORR							
Alkalinity as CaCO3	SM22 2320B-97	34.0	mg/L		05/08/18 0:00	AM	
Corrosivity Index (LI)	SM22 2330	-2.7			05/09/18 14:15	AM	
FE							
Iron, Fe	EPA 200.7	0.80	mg/L	05/15/18 12:00	05/21/18 1:42		
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		05/08/18 0:00	JR	
HARDC							
Hardness as CaCO3, Calcium	SM22 3500 Ca-B-97	34.0	mg/L		05/09/18 11:30	AM	
MN							
Manganese, Mn	EPA 200.7	<0.010	mg/L	05/15/18 12:00	05/21/18 1:42		U
NA							
Sodium, Na	EPA 200.7	5.0	mg/L	05/15/18 12:00	05/21/18 1:42		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	0.392	mg/L		05/10/18 13:06	LM	

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 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite							
Nitrite as N	SM22 4500NO2-B-00	<0.0100	mg/L		05/04/18 13:00	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			05/04/18 12:25	JR	OD
PH							
pH	SM4500H+B	6.16			05/04/18 12:20	JR	N
pH Temperature	SM2550B	18.0	°C		05/04/18 12:20	JR	N
TDS							
Solids, Dissolved Total	SM22 2540C-97	32.0	mg/L		05/07/18 14:00	AM	
TURB							
Turbidity	SM22 2130B-01	7.21	NTU's		05/04/18 13:35	JR	

Method 8260C, 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By



Lisa McClinton
 Lab Manager

Sample Number: 340257-01

The reported results relate only to the sample identified above.

Qualifiers

- N = Parameter is not NELAP certified
- OD = Odor sample not received in Glass container.

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

CHAIN OF CUSTODY

OCL Analytical Services

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on ice? Y
 Sample set up in 6 hr? Y
 Properly preserved? Y
 Within holding times? Y
 Reviewed by _____

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers Not/type	Preser- valve	cl resid	Analysis Required
340257-01	05/04	10:30AM				W-1	2(40)	AOL		VOC (E2)
							250	AWD3		Fe, Pb, Ni
							Scan1			NO ₃ , NO ₂
							Scan1			Chloride, Fluoride, TDS
							Scan1			Color, Conductivity, pH, ORP
							Scan1			Turb, Water Conductivity
							Scan1			Alkalinity
							Scan1			Residual P/A

Comments/Special Instructions:

Rush Requested? _____

Client Code: _____

Prepaid? AD

Sampled By: DAVIDE CAZZUO print date: 05/04 sign time: 10:30AM

Relinquished By: _____ print date: _____ sign time: _____

Relinquished By: _____ print date: _____ sign time: _____

Relinquished By: _____ print date: _____ sign time: _____

Received By: _____ print sign date: 5-4-08 time: 11:48

Received By: _____ print sign date: _____ time: _____

Received By: _____ print sign date: _____ time: _____

Received By: _____ print sign date: _____ time: _____

OCL Analytical Services
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KC Engineering and Land Surveying
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Date Received: 04/10/2018 14:50
 Date Complete: 05/08/2018 15:10
 Date Reported: 05/08/2018 16:26
 Date Printed: 05/08/2018 16:26

Sample Number: 339578-01
 Project:
 Description:
 Location: L-3
 Sample Point:

Date Sampled: 04/10/2018 12:30
 Sampled By: D. Cazzulo
 Matrix: Non Potable

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
524.2 NY VOC's							
Benzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Bromobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Bromochloromethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Bromomethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
n-Butylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
sec-Butylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
tert-Butylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Carbon tetrachloride	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Chlorobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Chloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Chloromethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
2-Chlorotoluene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
4-Chlorotoluene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Dibromomethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1-Dichloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2-Dichloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1-Dichloroethene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

05/08/2018

Lab No: 

EC: 

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Sample Number: 339578-01
 Project:
 Description:
 Location: L-3
 Sample Point:

Date Sampled: 04/10/2018 12:30
 Sampled By: D. Cazzulo
 Matrix: Non Potable

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
524.2 NY VOC's							
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,3-Dichloropropane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2-Dichloropropane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
2,2-Dichloropropane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1-Dichloropropene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Ethylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Hexachlorobutadiene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Isopropylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
p-Isopropyltoluene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Methylene chloride	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
n-Propylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Styrene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Tetrachloroethene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Toluene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U

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05/08/2018

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Sample Number: 339578-01
 Project:
 Description:
 Location: L-3
 Sample Point:

Date Sampled: 04/10/2018 12:30
 Sampled By: D. Cazzulo
 Matrix: Non Potable

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
524.2 NY VOC's							
Trichloroethene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Trichlorofluoromethane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Xylenes, Total	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
Vinyl chloride	8260C	<1.0	ug/L	04/12/18 2:22	04/12/18 2:22		U
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		04/17/18 0:00	AM	
Color							
Color (apparent)	SM22 2120B-01	25.0	CU's		04/10/18 15:10	JR	
CORR							
Alkalinity as CaCO3	SM22 2320B-97	<10.0	mg/L		04/17/18 0:00	JR	
Hardness as CaCO3, Calcium	SM22 3500CaB-97	<10.0	mg/L		04/11/18 11:15	AM	
pH	SM20 2330H+B	4.86			04/10/18 15:05	JR	N
pH Temperature	SM2550B	10.9	°C		04/10/18 15:05	JR	N
Corrosivity Index (LI)	SM22 2330	-5.75			04/18/18 0:00	JR	
FEMN							
Iron, Fe	EPA 200.7	0.150	mg/L	04/16/18 6:00	04/19/18 7:12		
Manganese, Mn	EPA 200.7	0.0950	mg/L	04/16/18 6:00	04/19/18 7:12		

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

05/08/2018

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Date Received: 04/10/2018 14:50
 Date Complete: 05/08/2018 15:10
 Date Reported: 05/08/2018 16:26
 Date Printed: 05/08/2018 16:26

Sample Number: 339578-01
 Project:
 Description:
 Location: L-3
 Sample Point:

Date Sampled: 04/10/2018 12:30
 Sampled By: D. Cazzulo
 Matrix: Non Potable

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		04/24/18 0:00	JR	
NA							
Sodium, Na	EPA 200.7	1.90	mg/L	04/16/18 6:00	04/19/18 7:12		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	<0.0500	mg/L		04/12/18 0:00	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.010	mg/L		04/10/18 14:55	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			04/10/18 15:10	JR	OD
TDS							
Solids, Dissolved Total	SM22 2540C-97	65.0	mg/L		04/12/18 16:00	AM	
TURB							
Turbidity	SM22 2130B-01	0.639	NTU's		04/12/18 9:30	AM	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

05/08/2018

Lab No: 

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Sample Number: 339578-01
Project:
Description:
Location: L-3
Sample Point:

Date Sampled: 04/10/2018 12:30
Sampled By: D. Cazzulo
Matrix: Non Potable

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
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EPA 8260C analysis by Envirotest Laboratories #10142
Method 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By



Andrew Melucci
Lab Technician

Sample Number: 339578-01

The reported results relate only to the sample identified above.

Qualifiers

- N = Parameter is not NELAP certified
- OD = Odor sample not received in Glass container.



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Date Received: 04/10/2018 14:50
 Date Complete: 05/08/2018 15:10
 Date Reported: 05/08/2018 16:26
 Date Printed: 05/08/2018 16:26

Sample Number: 339578-02
 Project:
 Description:
 Location: L-3
 Sample Point:

Date Sampled: 04/10/2018 12:30
 Sampled By: D. Cazzulo
 Matrix: Non Potable

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform Fecal MF							
Fecal Coliform, MF	SM9222D-97	<5	cfu/100ml		04/10/18 15:35 AM		

EPA 8260C analysis by Envirotest Laboratories #10142
 Method 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By Andrew Melucci
 Andrew Melucci
 Lab Technician

Sample Number: 339578-02
 The reported results relate only to the sample identified above.

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Date Received: 04/03/2018 11:55
 Date Complete: 04/25/2018 16:36
 Date Reported: 04/25/2018 16:38
 Date Printed: 04/25/2018 16:38

Sample Number: 339316-01
 Project:
 Description:
 Location: S-1
 Sample Point:

Date Sampled: 04/03/2018 10:30
 Sampled By: D. Cazzulo
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals
524.2 NY VOC's							
Benzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Bromobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Bromochloromethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Bromomethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
n-Butylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
sec-Butylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
tert-Butylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Carbon tetrachloride	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Chlorobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Chloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Chloromethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
2-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
4-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Dibromomethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1-Dichloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2-Dichloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1-Dichloroethene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U

OCL - OCL Analytical Services ELAP# 10510
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04/25/2018

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 Date Printed: 04/25/2018 16:38

Sample Number: 339316-01
 Project:
 Description:
 Location: S-1
 Sample Point:

Date Sampled: 04/03/2018 10:30
 Sampled By: D. Cazzulo
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
524.2 NY VOC's							
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,3-Dichloropropane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
2,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1-Dichloropropene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Ethylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Hexachlorobutadiene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Isopropylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
p-Isopropyltoluene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Methylene chloride	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
n-Propylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Styrene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Tetrachloroethene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Toluene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U

OCL - OCL Analytical Services ELAP# 10510
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Date Received: 04/03/2018 11:55
 Date Complete: 04/25/2018 16:36
 Date Reported: 04/25/2018 16:38
 Date Printed: 04/25/2018 16:38

Sample Number: 339316-01
 Project:
 Description:
 Location: S-1
 Sample Point:

Date Sampled: 04/03/2018 10:30
 Sampled By: D. Cazzulo
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
524.2 NY VOC's							
Trichloroethene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Trichlorofluoromethane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Xylenes, Total	524.2	<1.0	µg/L	04/10/18 12:06	04/10/18 12:06		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
Vinyl chloride	8260C	<1.0	ug/L	04/10/18 12:06	04/10/18 12:06		U
CHLORIDE							
Chloride	SM22 4500CL-C-97	10.9	mg/L		04/10/18 0:00	JR	
Color							
Color (apparent)	SM22 2120B-01	40.0	NTU's		04/03/18 15:35	AM	
CORR							
Alkalinity as CaCO3	SM22 2320B-97	15.3	mg/L		04/03/18 0:00	JR	
Hardness as CaCO3, Calcium	SM22 3500CaB-97	<10.0	mg/L		04/04/18 10:15	JR	
pH	SM20 2330H+B	5.11			04/03/18 15:30	AM	N
pH Temperature	SM2550B	18.8	°C		04/03/18 15:30	AM	N
Corrosivity Index (LI)	SM22 2330	-4.7			04/10/18 0:00	JR	
FEMN							
Iron, Fe	EPA 200.7	0.110	mg/L	04/08/18 10:27	04/12/18 11:22		
Manganese, Mn	EPA 200.7	0.0210	mg/L	04/08/18 10:27	04/12/18 11:22		

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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Bloomington NY 12721

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Sample Number: 339316-01
 Project:
 Description:
 Location: S-1
 Sample Point:

Date Sampled: 04/03/2018 10:30
 Sampled By: D. Cazzulo
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		04/10/18 0:00	JR	
NA							
Sodium, Na	EPA 200.7	6.30	mg/L	04/08/18 10:27	04/20/18 4:03		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	<0.0500	mg/L		04/05/18 0:00	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.010	mg/L		04/04/18 13:20	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			04/03/18 15:30	AM	
TDS							
Solids, Dissolved Total	SM22 2540C-97	45.0	mg/L		04/05/18 15:20	JR	
TURB							
Turbidity	SM22 2130B-01	0.532	ntu		04/04/18 14:50	JR	

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04/25/2018

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Date Sampled: 04/03/2018 10:30
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 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
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EPA 8260 analysis by Envirotest Laboratories #10142
 Method 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By 
 Lisa McClinton
 Lab Manager

Sample Number: 339316-01
 The reported results relate only to the sample identified above.

Qualifiers
 N = Parameter is not NELAP certified
 U = The analyte was analyzed for but not detected at or above the stated limit.

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04/25/2018 Lab No: 

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Date Received: 04/04/2018 12:10
 Date Complete: 04/30/2018 9:46
 Date Reported: 04/30/2018 10:43
 Date Printed: 04/30/2018 10:43

Sample Number: 339381-01
 Project:
 Description:
 Location: S-2
 Sample Point:

Date Sampled: 04/04/2018 8:15
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
2-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
4-Chlorotoluene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
p-Isopropyltoluene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Acrolein	8260C	<2.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Acrylonitrile	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Benzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Bromobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Bromoform	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Bromomethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Carbon tetrachloride	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Chlorobenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Bromochloromethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Chlorodibromomethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Chloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Chloroform	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U

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04/30/2018

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 Description:
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 Sample Point:

Date Sampled: 04/04/2018 8:15
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Chloromethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Dibromomethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Bromodichloromethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Ethylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Hexachlorobutadiene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Isopropylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Methylene chloride	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
n-Butylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
n-Propylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Naphthalene	8260C	<5.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
sec-Butylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Styrene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
tert-Butylbenzene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Tetrachloroethene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Toluene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Trichloroethene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U

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Date Sampled: 04/04/2018 8:15
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Vinyl chloride	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
Xylenes, Total	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1-Dichloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1-Dichloroethene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1-Dichloropropene	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2-Dichloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,3-Dichloropropane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
2,2-Dichloropropane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	04/10/18 2:17	04/10/18 2:17		U
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		04/10/18 0:00	JR	
Color							
Color (apparent)	SM22 2120B-01	20.0	NTU's		04/04/18 14:05	JR	

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Sample Number: 339381-01
 Project:
 Description:
 Location: S-2
 Sample Point:

Date Sampled: 04/04/2018 8:15
 Sampled By: Client
 Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
CORR							
Alkalinity as CaCO3	SM22 2320B-97	<10.0	mg/L		04/10/18 12:00	AM	
Hardness as CaCO3, Calcium	SM22 3500CaB-97	<10.0	mg/L		04/11/18 11:15	AM	
pH	SM20 2330H+B	6.78			04/04/18 13:30	JR	H3
pH Temperature	SM2550B	15.0	°C		04/04/18 13:30	JR	N
Corrosivity Index (LI)	SM22 2330	-4.18			04/11/18 14:30	AM	
FEMN							
Iron, Fe	EPA 200.7	0.0780	mg/L	04/08/18 10:27	04/13/18 6:31		
Manganese, Mn	EPA 200.7	0.0530	mg/L	04/08/18 10:27	04/13/18 6:31		
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		04/10/18 0:00	JR	
NA							
Sodium, Na	EPA 200.7	0.980	mg/L	04/08/18 10:27	04/13/18 6:31		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	<0.0500	mg/L		04/05/18 0:00	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.010	mg/L		04/04/18 13:20	JR	
ODOR							
Odor at 60C	SM22 2150B-97	None			04/04/18 14:10	JR	OD
TDS							
Solids, Dissolved Total	SM22 2540C-97	143	mg/L		04/05/18 15:20	JR	

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04/30/2018

Lab No: 

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Sample Number: 339381-01
Project:
Description:
Location: S-2
Sample Point:

Date Sampled: 04/04/2018 8:15
Sampled By: Client
Matrix: Wastewater

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
TURB							
Turbidity	SM22 2130B-01	0.540	ntu		04/04/18 14:50	JR	

EPA 524.2 analysis by Envirotest Laboratories #10142
Method 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By 
Lisa McClinton
Lab Manager

Sample Number: 339381-01
The reported results relate only to the sample identified above.

- Qualifiers**
- H3 = This analysis is no longer ELAP certified.
 - N = Parameter is not NELAP certified
 - OD = Odor sample not received in Glass container.

OCL - OCL Analytical Services ELAP# 10510
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04/30/2018

Lab No: 

EC: 

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Date Received: 05/04/2018 11:40
 Date Complete: 05/23/2018 15:42
 Date Reported: 05/23/2018 16:12
 Date Printed: 05/23/2018 16:12

Sample Number: 340258-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W - 2
 Sample Point:

Date Sampled: 05/04/2018 10:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
2-Chlorotoluene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
4-Chlorotoluene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
p-Isopropyltoluene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Acrolein	8260C	<2.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Acrylonitrile	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Benzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Bromobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Bromoform	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Bromomethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Carbon tetrachloride	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Chlorobenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Bromochloromethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Chlorodibromomethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Chloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Chloroform	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U

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Date Received: 05/04/2018 11:40
 Date Complete: 05/23/2018 15:42
 Date Reported: 05/23/2018 16:12
 Date Printed: 05/23/2018 16:12

Sample Number: 340258-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W - 2
 Sample Point:

Date Sampled: 05/04/2018 10:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Chloromethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Dibromomethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Bromodichloromethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Ethylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Hexachlorobutadiene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Isopropylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Methylene chloride	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
n-Butylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
n-Propylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Naphthalene	8260C	<5.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
sec-Butylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Styrene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
tert-Butylbenzene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Tetrachloroethene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Toluene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Trichloroethene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
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Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 05/04/2018 11:40
 Date Complete: 05/23/2018 15:42
 Date Reported: 05/23/2018 16:12
 Date Printed: 05/23/2018 16:12

Sample Number: 340258-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W - 2
 Sample Point:

Date Sampled: 05/04/2018 10:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Vinyl chloride	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
Xylenes, Total	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1-Dichloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1-Dichloroethene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1-Dichloropropene	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2-Dichloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2-Dichloropropane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,3-Dichloropropane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
2,2-Dichloropropane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	05/09/18 7:06	05/09/18 7:06		U
ALK							
Alkalinity as CaCO3	SM22 2320B-97	80.0	mg/L		05/08/18 0:00	AM	
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		05/08/18 0:00	JR	

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 Location: W - 2
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Date Sampled: 05/04/2018 10:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform PA							
Total Coliform(ONPG)	SM20 9223B-97 Colilert	Absence	per 100mL		05/04/18 15:45	AM	
E.coli (ONPG)	SM20 9223B-97 Colilert	Absence	per 100mL		05/04/18 15:45	AM	
COLOR							
Color (apparent)	SM22 2120B-01	10.0	CU's		05/04/18 12:20	JR	
pH	SM20 4500H+B	7.20			05/04/18 12:20	JR	N
pH Temperature	SM2550B	20.7	°C		05/04/18 12:20	JR	N
CORR							
Hardness as CaCO3, Calcium	SM22 3500CaB-97	30.0	mg/L		05/09/18 11:30	AM	
pH	SM20 2330H+B	7.20			05/04/18 12:20	JR	N
pH Temperature	SM2550B	20.7	°C		05/04/18 12:20	JR	N
Alkalinity as CaCO3	SM22 2320B-97	80.0	mg/L		05/08/18 0:00	AM	
Corrosivity Index (LI)	SM22 2330	-1.3			05/09/18 14:15	AM	
FE							
Iron, Fe	EPA 200.7	0.50	mg/L	05/15/18 12:00	05/21/18 1:49		
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		05/08/18 0:00	JR	
HARDC							
Hardness as CaCO3, Calcium	SM22 3500 Ca-B-97	30.0	mg/L		05/09/18 11:30	AM	
MN							
Manganese, Mn	EPA 200.7	0.082	mg/L	05/15/18 12:00	05/21/18 1:49		

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05/23/2018

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 Location: W - 2
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 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
NA							
Sodium, Na	EPA 200.7	11	mg/L	05/15/18 12:00	05/21/18 1:49		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	<0.0500	mg/L		05/10/18 13:06	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.0100	mg/L		05/04/18 13:00	JR	
ODOR							
Odor at 60C	SM22 2150B-97	0			05/04/18 12:25	JR	OD
PH							
pH	SM4500H+B	7.20			05/04/18 12:20	JR	N
pH Temperature	SM2550B	20.7	°C		05/04/18 12:20	JR	N
TDS							
Solids, Dissolved Total	SM22 2540C-97	51.0	mg/L		05/07/18 14:00	AM	
TURB							
Turbidity	SM22 2130B-01	1.73	NTU's		05/04/18 13:35	JR	

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Location: W - 2
Sample Point:

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Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
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Method 8260C, 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By



Lisa McClinton
Lab Manager

Sample Number: 340258-01

The reported results relate only to the sample identified above.

Qualifiers

- N = Parameter is not NELAP certified
- OD = Odor sample not received in Glass container.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

05/23/2018

Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845) 733-1557 Fax (845) 733-1944

Report to:

Bill to:

Name	KGE
Address	
City/ State/ Zip	
Phone	

Name	KGE
Address	
City/ State/ Zip	
Phone	

Samples should be brought to the lab ON ICE with a receiving temp of 2 to 6 C

Sample Temp (c) 19.7
 Sample rec'd on ice? N
 Sample set up in 6 hr? Y
 Properly preserved? Y
 Within holding times? Y
 Reviewed by _____

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preser- vative	Q resid	Analysis Required
31025801	05/24	10:45AM				W-2	2(40) DSO	HCL HNO3		VOC (EPA) Fe, Mn, Ni NO3, NO2 Chloride, TDS, Fluoride Calc, Ca, Hard, pH, ODOR TURB, ARSO Crescin
							SOON1			
							SOON1			
							SOON1			Alkalinity
							SOON1			Alkalinity P/D

Comments/Special Instructions:

Rush Requested? _____

Client Code: _____

Prepaid? N

Sampled By:	print	DANDY	CA800	date:	05/24	Received By:	print	sign	date:	5-24-08
Relinquished By:	print	ME	CA	time:	10:45AM	Received By:	print	sign	date:	11:50
Relinquished By:	print			time:		Received By:	print	sign	date:	
Relinquished By:	print			time:		Received By:	print	sign	date:	

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Sample Number: 340259-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W - 3
 Sample Point:

Date Sampled: 05/04/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
1,2,3-Trichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2,4-Trichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2,4-Trimethylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,3,5-Trimethylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,3-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,4-Dichlorobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
2-Chlorotoluene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
4-Chlorotoluene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
p-Isopropyltoluene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Acrolein	8260C	<2.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Acrylonitrile	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Benzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Bromobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Bromoform	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Bromomethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Carbon tetrachloride	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Chlorobenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Bromochloromethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Chlorodibromomethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Chloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Chloroform	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U

OCL - OCL Analytical Services ELAP# 10510
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05/23/2018

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Date Sampled: 05/04/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Chloromethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
cis-1,2-Dichloroethene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
cis-1,3-Dichloropropene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Dibromomethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Bromodichloromethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Dichlorodifluoromethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Ethylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Hexachlorobutadiene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Isopropylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Methyl tert-butyl ether	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Methylene chloride	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
n-Butylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
n-Propylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Naphthalene	8260C	<5.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
sec-Butylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Styrene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
tert-Butylbenzene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Tetrachloroethene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Toluene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
trans-1,2-Dichloroethene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
trans-1,3-Dichloropropene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Trichloroethene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U

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Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
8260							
Trichlorofluoromethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Vinyl chloride	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
Xylenes, Total	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1,1,2-Tetrachloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1,1-Trichloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1,2-Trichloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1-Dichloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1-Dichloroethene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1-Dichloropropene	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2-Dichloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2-Dichloropropane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,3-Dichloropropane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
2,2-Dichloropropane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
2-Chloroethyl vinyl ether	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2-Dichloroethene, Total	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,1,2,2-Tetrachloroethane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
1,2,3-Trichloropropane	8260C	<1.0	ug/L	05/09/18 7:38	05/09/18 7:38		U
ALK							
Alkalinity as CaCO3	SM22 2320B-97	70.0	mg/L		05/08/18 0:00	AM	
CHLORIDE							
Chloride	SM22 4500CL-C-97	<4.00	mg/L		05/08/18 0:00	JR	

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Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform PA							
Total Coliform(ONPG)	SM20 9223B-97 Colilert	Absence	per 100mL		05/04/18 15:45	AM	
E.coli (ONPG)	SM20 9223B-97 Colilert	Absence	per 100mL		05/04/18 15:45	AM	
COLOR							
Color (apparent)	SM22 2120B-01	<5.00	CU's		05/04/18 12:20	JR	
CORR							
Alkalinity as CaCO3	SM22 2320B-97	70.0	mg/L		05/08/18 0:00	AM	
Corrosivity Index (LI)	SM22 2330	-0.9			05/09/18 14:15	AM	
FE							
Iron, Fe	EPA 200.7	<0.060	mg/L	05/15/18 12:00	05/21/18 1:56		U
FL							
Fluoride	SM22 4500F-C-97	<0.200	mg/L		05/08/18 0:00	JR	
HARDC							
Hardness as CaCO3, Calcium	SM22 3500 Ca-B-97	62.0	mg/L		05/09/18 11:30	AM	
MN							
Manganese, Mn	EPA 200.7	<0.010	mg/L	05/15/18 12:00	05/21/18 1:56		U
NA							
Sodium, Na	EPA 200.7	5.7	mg/L	05/15/18 12:00	05/21/18 1:56		
Nitrate and Nitrite							
Nitrate/Nitrite as N	La10107041C	0.0574	mg/L		05/10/18 13:06	LM	
Nitrite as N	SM22 4500NO2-B-00	<0.0100	mg/L		05/04/18 13:00	JR	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

05/23/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 05/04/2018 11:40
 Date Complete: 05/23/2018 15:50
 Date Reported: 05/23/2018 16:12
 Date Printed: 05/23/2018 16:12

Sample Number: 340259-01
 Project:
 Description: KC Engineering and Land Surveying
 Location: W - 3
 Sample Point:

Date Sampled: 05/04/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
ODOR							
Odor at 60C	SM22 2150B-97	None			05/04/18 12:25	JR	OD
PH							
pH	SM4500H+B	7.45			05/04/18 12:20	JR	N
pH Temperature	SM2550B	16.6	°C		05/04/18 12:20	JR	N
TDS							
Solids, Dissolved Total	SM22 2540C-97	67.0	mg/L		05/07/18 14:00	AM	
TURB							
Turbidity	SM22 2130B-01	<0.100	NTU's		05/04/18 13:35	JR	

Method 8260C, 200.7 and 200.8 analyses by Envirotest Laboratories #10142

Approved By



Lisa McClinton
 Lab Manager

Sample Number: 340259-01

The reported results relate only to the sample identified above.

Qualifiers

- N = Parameter is not NELAP certified
- OD = Odor sample not received in Glass container.

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

05/23/2018

Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services

Report to:

Name: KOLE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KOLE

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) 12.8
 Sample rec'd on ice? Y
 Sample set up in 6 hr? Y
 Properly preserved? Y
 Within holding times? Y
 Reviewed by _____

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	ci resid	Analysis Required
340859-01a,b,c	05/04	11:00 AM				N-3	2(40) HDL			NOE (RED) Fe, mg, NO NO ₃ , NO ₂
							250 HDG			Change Fluoride, TDS
							SCAM1			Color, (Ca) Hard, pH, ODSr
							SCAM1			Alkalinity, TUBS, Chlor
							SCAM1			Alkalinity
							100ml H ₂ O			Fe, Mn, Pb

Comments/Special Instructions:

Rush Requested? _____

Client Code: _____

Prepaid? NO

Sampled By: DAVID CARTER print date: 05/04
 sign time: 11:00 AM

Relinquished By: _____ print date: _____
 sign time: _____

Relinquished By: _____ print date: _____
 sign time: _____

Relinquished By: _____ print date: _____
 sign time: _____

Received By: _____ print date: _____
 sign time: _____

Received By: _____ print date: _____
 sign time: _____

Received By: _____ print date: _____
 sign time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCE

Bill to:

KCE

Address _____
 City, State, Zip _____
 Phone _____

Sample Temp (c) 0.1
 Sample rec'd on ice? Yes
 Sample set up in 6 hr? Yes
 Properly preserved? Yes
 Within holding times? Yes
 Reviewed by IK

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers Not/Type	Preser- valve	cl resid	Analysis Required
839381-06	04/11	8:15				S-2	2 (40)	Hel		POC
-01b							250ml	HWO ₃		Fe, Mn, V ₆
-01c							500ml			KNO ₃ , NO ₂
-01d							500ml			Chlorides, Fluoride, TDS
-01e							500ml			Alk, (Ca) Hardness, pH, -DOR
-01f							500ml			TURB, ARK-COCCOS
-01g										Alkalinity
-02							100ml	Flu		Fecal

Comments/Special Instructions:

Rush Requested? NO

Client Code:

Prepaid? NO

Sampled By: _____ print _____ date: 4/11/8
 Relinquished By: DAVID CAZZOLO print _____ time: 2:10pm
 Relinquished By: _____ print _____ date: _____
 Relinquished By: _____ print _____ date: _____
 Relinquished By: _____ print _____ date: _____

CHAIN OF CUSTODY

OCL Analytical Services

Report to:

Bill to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Sample Temp (c) 9.1
 Sample rec'd on ice? yes
 Sample set up in 6 hr? yes
 Properly preserved? yes
 Within holding times? yes
 Reviewed by: [Signature]

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers	Preser-	cl	resid	Analysis Required
							Notype	vative			
33987A-01a	04/04/08	10:00				S-23	2(42)	Hel			VOE
-01b							250ml	Amo			Fe, Mn, Ni
-01c							500ml				NO ₃ , NO ₂
-01d							500ml				Chloride, Fluoride, TDS
-01e							500ml				Color, (Ca) Hardness, pH, DOC
-01f											TURB, Turbos.
-01g							500ml				Alkalinity
-02							100ml	Amo			Fe, Cr

Comments/Special Instructions:

Rush Requested? NO

Client Code:

Prepaid? NO

Sampled By: _____ print sign	date: _____ time: _____	Received By: _____ print sign	date: <u>4/4/08</u> time: <u>12:00</u>
Relinquished By: _____ print sign	date: <u>04/04/08</u> time: <u>12:00 PM</u>	Received By: _____ print sign	date: _____ time: _____
Relinquished By: _____ print sign	date: _____ time: _____	Received By: _____ print sign	date: _____ time: _____
Relinquished By: _____ print sign	date: _____ time: _____	Received By: _____ print sign	date: _____ time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on Ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

9.1
HE

OCL Number	Collection Date Time	comp	grab	matrix	Sample Description/Location	Containers Nolyte	Preser-valve	ci	resid	Analysis Required
33938301	04/04 8:30				L-1	2 (4b)	ACL			VOC <u>HEBY</u>
						OSO	HNOC			Fe, Mn, Na
						SOAN1				NO ₃ , NO ₂
						SOAN1				Chlorides, Fluorides , TDS, Fluoride
						SOAN1				Alky, Ca, Hard, pH, GWT,
						SOAN1				TURBIDITY, color, Conductivity
						SOAN1				Alkalinity
						SOAN1				Fe, Mn

Comments/Special Instructions:

Rush Requested?

Client Code: _____

Prepaid?

Sampled By: _____ print sign	date: _____ time: _____	Received By: _____ print sign	date: <u>4/4/18</u> time: <u>12:10 pm</u>
Relinquished By: _____ print sign	date: <u>04/04</u> time: <u>12:00 PM</u>	Received By: _____ print sign	date: _____ time: _____
Relinquished By: _____ print sign	date: _____ time: _____	Received By: _____ print sign	date: _____ time: _____
Relinquished By: _____ print sign	date: _____ time: _____	Received By: _____ print sign	date: _____ time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KALB
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KALB

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Q.1
[Signature]
[Signature]
[Signature]

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers Not/Type	Preser- valve	ci	resid	Analysis Required
339250000	04/04	9:30				L-2	240	HCL			VOC Met
-015							250	AN03			Fe, Mn, Ni
-01c							250ml				NO ₃ , NO ₂
-01d							250ml				Chlorides, FDS, Fluoride
-01e							250ml				Cadmium, Cobalt, Copper, Pb, Cd, Cr, Arsenic, TUEB, DDT
-01g							250ml				Alkalinity
-02							10ml	thio			FECA

Comments/Special Instructions:

Rush Requested? _____

Client Code: _____

Prepaid? NO

Sampled By: _____	print	_____	date:	_____	Received By: _____	print	_____	date:	4/4/18
_____	sign	_____	time:	_____	_____	sign	_____	time:	12:10 pm
Relinquished By: _____	print	DAVID CARRIS	date:	04/04/18	Received By: _____	print	_____	date:	_____
_____	sign	[Signature]	time:	12:00 PM	_____	sign	_____	time:	_____
Relinquished By: _____	print	_____	date:	_____	Received By: _____	print	_____	date:	_____
_____	sign	_____	time:	_____	_____	sign	_____	time:	_____
Relinquished By: _____	print	_____	date:	_____	Received By: _____	print	_____	date:	_____
_____	sign	_____	time:	_____	_____	sign	_____	time:	_____

CHAIN OF CUSTODY

OCL Analytical Services

35 Gostien Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on ice? Y
 Sample set up in 6 hr? Y
 Properly preserved? Y
 Within holding times? Y
 Reviewed by _____

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/location	Containers No/type	Preser- valve	cl rec'd	Analysis Required
3395-78-616	2/10/12	3:00 PM				KPHZ L-3	250 HDG	ACL		VOC
							250 HDG	HDG		Fe, Mn, Ni
							250 HDG	HDG		NO ₃ , NO ₂
							250 HDG	HDG		Chlorides, FDS, Fluoride
							250 HDG	HDG		Alkalinity
							250 HDG	HDG		Alkalinity
							250 HDG	HDG		Alkalinity

Comments/Special Instructions:

Rush Requested?

Client Code:

Prepaid?

NO

Sampled By: David Carrillo print date: 2/6/12 time: 3:00 PM
 Relinquished By: _____ print date: _____ time: _____
 Relinquished By: _____ print date: _____ time: _____
 Relinquished By: _____ print date: _____ time: _____
 Received By: _____ print date: _____ time: _____
 Received By: _____ print date: _____ time: _____
 Received By: _____ print date: _____ time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCLE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCLE

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

OCL Number	Collection Date	Time	Comp	grab	matrix	Sample Description/location	Containers Not/Type	Preser- valve	cl resid	Analysis Required
	05/04	10:30AM				M-1	2(40)	AOL		VOC (600) Fe Mn, Ni
							250	HNO ₃		NO ₂ , NO _x
							200ml			Chloride, Fluoride, TDS
							200ml			Color, Chloride, PH, ODOR
							200ml			Turb, Alkalinity
							100ml	Amia		ALKAL PH

Comments/Special Instructions:

Rush Requested?

Client Code:

Prepaid? AD

Sampled By: DAVIDE CAZZUO print date: 05/04 time: 10:30AM
 Relinquished By: [Signature] print date: _____ time: _____
 Relinquished By: _____ print date: _____ time: _____
 Relinquished By: _____ print date: _____ time: _____

Received By: _____ print sign
 Received By: _____ print sign
 Received By: _____ print sign

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KGE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

Name: KGE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

OCL Number	Collection		comp	grab	matrix	Sample Description/Location	Containers Not/Type	Preser- vative	cl resid	Analysis Required
	Date	Time								
	05/01/04	10:45 AM				KL18 W-2	2(40)	HCL		VOC (ES)
							DSO	11003		Fe, Mn, Ni
							SOON1			NO ₃ , NO ₂
							SOON1			Chloride, TDS, Fluoride
							SOON1			Chlor, Nitrate, PH, ODOR
							SOON1			TURB, ARSENIC
							SOON1			Alkalinity
							SOON1			Asbestos P/A

Comments/Special Instructions:

Rush Requested?

Client Code: _____

Prepaid?

W

Sampled By: DAVID CARRICO print date: 05/01/04 sign [Signature] time: 10:45 AM

Relinquished By: _____ print date: _____ sign _____ time: _____

Relinquished By: _____ print date: _____ sign _____ time: _____

Relinquished By: _____ print date: _____ sign _____ time: _____

Received By: _____ print date: _____ sign _____ time: _____

Received By: _____ print date: _____ sign _____ time: _____

Received By: _____ print date: _____ sign _____ time: _____

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name: KCE
 Address: _____
 City, State, Zip: _____
 Phone: _____

Bill to:

KCE

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

OCL Number	Collection Date Time	Comp	Grab	matrix	Sample Description/Location	Containers Not/Type	Preer- valve	cl resist	Analysis Required
	05/04 11:00 AM				A1-3	2(40)	Hel		MoC (EN)
						250	HNQ		Fe, Mn, Ni
						STAN 1			NO ₃ , NO ₂
						STAN 1			Chloride Fluoride, TDS
						STAN 1			Am (L) Heavy PH ODOR
						STAN 1			Cressmit, TURB, ALKAL
						100ml	HR.0		ALKALINITY
									PH/A

Comments/Special Instructions:

Rush Requested? Client Code: _____ Prepaid?

Sampled By: DAVID CARROLL print 05/04 date: 5-4-18 time: 11:00 AM
 Relinquished By: [Signature] print 05/04 date: 5-4-18 time: 11:48
 Relinquished By: [Signature] print 05/04 date: 5-4-18 time: 11:48
 Relinquished By: [Signature] print 05/04 date: 5-4-18 time: 11:48

Round 3

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919


Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:06
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343218-01
 Project:
 Description:
 Location: Lake Sample
 Sample Point: L - 1

Date Sampled: 07/25/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	>2419.2	cfu/100mL		07/25/18 15:50	A.M.	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	6.3	cfu/100mL		07/25/18 15:50	A.M.	

Sample Number: 343218-01
 The reported results relate only to the sample identified above.

Approved By 

 Lisa McClinton
 Lab Manager

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:06
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343218-02
 Project:
 Description:
 Location: Lake Sample
 Sample Point: L - 1

Date Sampled: 07/25/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Non Potable							
Alkalinity as CaCO3	SM 2320B-2011	<10.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	<4.00	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	25.0	CU's		07/25/18 15:40	JR	
Fe							
Iron, Fe	EPA 200.7	0.210	mg/L	08/07/18 1:00	08/08/18 9:42	EL	
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Non Potable							
Hardness as CaCO3, Calcium	SM 3500-Ca-B-2011	12.0	mg/L		08/01/18 11:00	A.M.	
Mn							
Manganese, Mn	EPA 200.7	0.180	mg/L	08/07/18 1:00	08/08/18 9:42	EL	
Na							
Sodium, Na	EPA 200.7	1.20	mg/L	08/07/18 1:00	08/08/18 9:42	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	<0.0500	mg/L		07/27/18 0:00	LM	
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 14:30	JR	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:06
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343218-02
 Project:
 Description:
 Location: Lake Sample
 Sample Point: L - 1

Date Sampled: 07/25/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Odor							
Odor at 60C	SM 18-22 2150B (-97)	1.00			07/25/18 15:45	JR	
pH							
pH	SM 20 4500-H+ B	6.11			07/25/18 14:40	JR	N
pH Temperature	SM 2550B	23.0	°C		07/25/18 14:40	JR	N
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	100	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	3.06	NTU's		07/25/18 16:10	JR	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

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 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:06
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343218-02
 Project:
 Description:
 Location: Lake Sample
 Sample Point: L - 1

Date Sampled: 07/25/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Dibromomethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:06
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343218-02
 Project:
 Description:
 Location: Lake Sample
 Sample Point: L - 1

Date Sampled: 07/25/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Styrene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/27/18 5:50	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/27/18 5:50	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

OCL Analytical Services
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Bloomington NY 12721

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Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Date Received: 07/25/2018 0:00
Date Complete: 08/21/2018 12:06
Date Reported: 08/21/2018 14:13
Date Printed: 08/21/2018 14:13

Sample Number: 343218-02
Project:
Description:
Location: Lake Sample
Sample Point: L - 1

Date Sampled: 07/25/2018 11:00
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
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EL = Analysis by Envirotest Laboratories #10142

Approved By 

Lisa McClinton
Lab Manager

Sample Number: 343218-02
The reported results relate only to the sample identified above.

- Qualifiers**
N = Parameter is not NELAP certified
U = The analyte was analyzed for but not detected at or above the stated limit.

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name _____
 KC Engineering
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: _____

Sample Temp (c) 20.0
 Sample rec'd on ice? N
 Sample set up in 6 hr? Y
 Properly preserved? Y
 Within holding times? Y
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
2-1	09/25	11:00 AM				LAKE SAMPLE	125 mL	none		Total Coliform MPN
34321801						L-1				
a							500ml - P	none		Alkalinity
b							500ml - P	none		Nitrate, nitrite
c							500ml - P	none		pH, odor, turbidity, color
d							1L P	none		TDS, fluoride, chloride
e							500ml P	HNO3		Ca Hardness
f							250ml P	HNO3		Fe, Mn, Na
							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: NO Prepaid? _____

Sampled By: _____	print sign	date: 09/25	time: 11:00 AM	Received By: _____	print sign	date: 09/25	time: 1:40
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____
Relinquished By: _____	print sign	date: _____	time: _____	Received By: _____	print sign	date: _____	time: _____

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Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:36
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30


Sample Number: 343171-01
 Project:
 Description:
 Location:
 Sample Point: L - 2

Date Sampled: 07/24/2018 11:30
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	1553.1	cfu/100mL		07/24/18 16:20	JR	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	7.3	cfu/100mL		07/24/18 16:20	JR	

Sample Number: 343171-01

The reported results relate only to the sample identified above.

Approved By 

 Lisa McClinton
 Lab Manager

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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Bloomington NY 12721

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Date Received: 07/24/2018 0:00
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 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343171-02
 Project:
 Description:
 Location:
 Sample Point: L - 2

Date Sampled: 07/24/2018 11:30
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Non Potable							
Alkalinity as CaCO ₃	SM 2320B-2011	<10.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	<4.00	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	20.0	CU's		07/24/18 15:40	A.M.	
pH	SM 20 4500-H+ B	6.11			07/24/18 15:40	A.M.	
pH Temperature	SM 2550B	17	°C		07/24/18 15:40	A.M.	
Fe							
Iron, Fe	EPA 200.7	0.0960	mg/L	07/27/18 9:09	07/27/18 4:52	EL	
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Non Potable							
Hardness as CaCO ₃ , Calcium	SM 3500-Ca-B-2011	10.0	mg/L		07/25/18 12:45	JR	
Mn							
Manganese, Mn	EPA 200.7	0.0170	mg/L	07/27/18 9:09	07/27/18 4:52	EL	
Na							
Sodium, Na	EPA 200.7	1.20	mg/L	07/27/18 9:09	07/27/18 4:52	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	<0.0500	mg/L		07/25/18 0:00	LM	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

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Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:36
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343171-02
 Project:
 Description:
 Location:
 Sample Point: L - 2

Date Sampled: 07/24/2018 11:30
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite - Non Potable							
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 10:40	A.M.	
Odor							
Odor at 60C	SM 18-22 2150B (-97)	2.00			07/24/18 16:00	A.M.	
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	85.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	1.24	NTU's		07/24/18 15:50	A.M.	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

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EC: 

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 2142 Route 302
 Circleville, NY 10919

Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:36
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343171-02
 Project:
 Description:
 Location:
 Sample Point: L - 2

Date Sampled: 07/24/2018 11:30
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Dibromomethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

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Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:36
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343171-02
 Project:
 Description:
 Location:
 Sample Point: L - 2

Date Sampled: 07/24/2018 11:30
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Styrene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/25/18 4:45	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/25/18 4:45	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

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Certificate of Analysis

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2142 Route 302
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Date Received: 07/24/2018 0:00
Date Complete: 08/16/2018 15:36
Date Reported: 08/16/2018 16:30
Date Printed: 08/16/2018 16:30

Sample Number: 343171-02
Project:
Description:
Location:
Sample Point: L - 2

Date Sampled: 07/24/2018 11:30
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142
pH is not NELAC certified.
Temperature is not NELAC certified.

Approved By



Lisa McClinton
Lab Manager

Sample Number: 343171-02

The reported results relate only to the sample identified above.

Qualifiers

U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KC Engineering
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: _____

Sample Temp (c) 24.9
 Sample rec'd on ice? Y
 Sample set up in 6 hr? Y
 Properly preserved? Y
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection		Matrix	grab	comp	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required
	Date	Time								
<u>722</u>	<u>07/04</u>	<u>11:30 AM</u>				<u>L-2</u>	125 mL	none		Total Coliform <u>10000 MPN</u>
<u>34317101</u>							500ml - P	none		Alkalinity
<u>029</u>							500ml - P	none		Nitrate, nitrite
<u>b</u>							500ml - P	none		pH, odor, turbidity, color
<u>c</u>							1L P	none		TDS, fluoride, chloride
<u>d</u>							500ml P	HNO3		Ca Hardness
<u>e</u>							250ml P	HNO3		Fe, Mn, Na
<u>f</u>							2-40ml vial	HCl		VOC + MTBE
<u>g</u>										

Comments/Special Instructions: _____
 Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By: <u>DAVIDE CARRO</u>	print sign	date: <u>07/04</u>	date: <u>7-29-08</u>
Relinquished By: <u>RC</u>	print sign	time: <u>11:30 AM</u>	time: <u>9:00</u>
Relinquished By: _____	print sign	date: _____	date: _____
Relinquished By: _____	print sign	date: _____	date: _____
Relinquished By: _____	print sign	date: _____	date: _____

OCL Analytical Services
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Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Date Received: 07/24/2018 0:00
Date Complete: 08/16/2018 15:44
Date Reported: 08/16/2018 16:30
Date Printed: 08/16/2018 16:30


Sample Number: 343172-01
Project:
Description:
Location:
Sample Point: L- 3

Date Sampled: 07/24/2018 12:50
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	>2419.2	cfu/100mL		07/24/18 16:20	JR	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	179.3	cfu/100mL		07/24/18 16:20	JR	

Sample Number: 343172-01

The reported results relate only to the sample identified above.

Approved By 

Lisa McClinton
Lab Manager

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

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Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:44
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343172-02
 Project:
 Description:
 Location:
 Sample Point: L - 3

Date Sampled: 07/24/2018 12:50
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Non Potable							
Alkalinity as CaCO3	SM 2320B-2011	<10.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	<4.00	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	70.0	CU's		07/24/18 15:40	A.M.	
Fe							
Iron, Fe	EPA 200.7	0.460	mg/L	07/31/18 10:00	08/01/18 9:51	EL	g
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Non Potable							
Hardness as CaCO3, Calcium	SM 3500-Ca-B-2011	20.0	mg/L		07/25/18 12:45	JR	
Mn							
Manganese, Mn	EPA 200.7	0.130	mg/L	07/31/18 10:00	08/01/18 9:51	EL	
Na							
Sodium, Na	EPA 200.7	1.70	mg/L	07/31/18 10:00	08/01/18 9:51	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	<0.0500	mg/L		07/25/18 0:00	LM	
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 10:40	A.M.	

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Sample Number: 343172-02
 Project:
 Description:
 Location:
 Sample Point: L - 3

Date Sampled: 07/24/2018 12:50
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Odor							
Odor at 60C	SM 18-22 2150B (-97)	1.00			07/24/18 16:00	A.M.	
pH							
pH	SM 20 4500-H+ B	4.99			07/24/18 15:40	A.M.	
pH Temperature	SM 2550B	23.3	°C		07/24/18 15:40	A.M.	
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	18.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	1.94	NTU's		07/24/18 15:50	A.M.	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U

OCL - OCL Analytical Services ELAP# 10510
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08/16/2018

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Sample Number: 343172-02
 Project:
 Description:
 Location:
 Sample Point: L - 3

Date Sampled: 07/24/2018 12:50
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Dibromomethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U

OCL - OCL Analytical Services ELAP# 10510
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08/16/2018

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 Date Complete: 08/16/2018 15:44
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Sample Number: 343172-02
 Project:
 Description:
 Location:
 Sample Point: L - 3

Date Sampled: 07/24/2018 12:50
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Styrene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/25/18 5:22	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/25/18 5:22	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

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Date Complete: 08/16/2018 15:44
Date Reported: 08/16/2018 16:30
Date Printed: 08/16/2018 16:30

Sample Number: 343172-02
Project:
Description:
Location:
Sample Point: L - 3

Date Sampled: 07/24/2018 12:50
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142
pH is not NELAC certified.
Temperature is not NELAC certified.

Approved By



Lisa McClinton
Lab Manager

Sample Number: 343172-02

The reported results relate only to the sample identified above.

Qualifiers

- g = Result fails applicable drinking water standards
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services

Report to:

Name
KC Engineering

Bill to:

35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Address

City, State, Zip

Phone

Samples should be brought to the lab ON ICE
with a receiving temp of 2 to 6 C

Sample Temp (c)
Sample rec'd on ice?
Sample set up in 6 hr?
Properly preserved?
Within holding times?
Reviewed by

24.9

✓

OCL Number	Collection		comp	grab	matrix	Sample Description/Location	Containers No/type	Preser-vative	cl resid	Analysis Required
	Date	Time								
313102-01	01/24	12:00 PM				L-3	125 mL	none		Total Coliform
029							500ml - P	none		Alkalinity
b							500ml - P	none		Nitrate, nitrite
c							500ml - P	none		pH, odor, turbidity, color
d							1L P	none		TDS, fluoride, chloride
e							500ml P	HNO3		Ca Hardness
f							250ml P	HNO3		Fe, Mn, Na
g							2-40ml vial	HCl		VOC + MTBE
h										
i										
j										
k										

Comments/Special Instructions:

Rush Requested? _____

Client Code: _____

Prepaid? NO

Sampled By: David Weiss print date: 01/24
 Relinquished By: N sign time: 12:50 PM
 Received By: _____ print sign date: 1-24-78
 Relinquished By: _____ print sign date: 3/10
 Relinquished By: _____ print sign date: _____
 Received By: _____ print sign date: _____

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Date Received: 07/24/2018 0:00
Date Complete: 08/16/2018 15:45
Date Reported: 08/16/2018 16:30
Date Printed: 08/16/2018 16:30

Sample Number: 343173-01
Project:
Description:
Location:
Sample Point: S - 1

Date Sampled: 07/24/2018 11:00
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	>2419.2	cfu/100mL		07/24/18 16:20	JR	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	>2419.2	cfu/100mL		07/24/18 16:20	JR	

Sample Number: 343173-01
The reported results relate only to the sample identified above.

Approved By 

Lisa McClinton
Lab Manager

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Sample Number: 343173-02
 Project:
 Description:
 Location:
 Sample Point: S - 1

Date Sampled: 07/24/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Non Potable							
Alkalinity as CaCO3	SM 2320B-2011	<10.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	9.26	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	90.0	CU's		07/24/18 15:40	A.M.	
pH	SM 20 4500-H+ B	6.03			07/24/18 15:40	A.M.	
pH Temperature	SM 2550B	25	°C		07/24/18 15:40	A.M.	
Fe							
Iron, Fe	EPA 200.7	0.460	mg/L	07/31/18 10:00	08/01/18 9:58	EL	g
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Non Potable							
Hardness as CaCO3, Calcium	SM 3500-Ca-B-2011	18.0	mg/L		07/25/18 12:45	JR	
Mn							
Manganese, Mn	EPA 200.7	0.130	mg/L	07/31/18 10:00	08/01/18 9:58	EL	
Na							
Sodium, Na	EPA 200.7	7.50	mg/L	07/31/18 10:00	08/01/18 9:58	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	0.0545	mg/L		07/25/18 0:00	LM	

OCL - OCL Analytical Services ELAP# 10510
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08/16/2018

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Sample Number: 343173-02
 Project:
 Description:
 Location:
 Sample Point: S - 1

Date Sampled: 07/24/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite - Non Potable							
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 10:40	A.M.	
Odor							
Odor at 60C	SM 18-22 2150B (-97)	2.00			07/24/18 16:00	A.M.	
pH							
pH	SM 20 4500-H+ B	6.03			07/24/18 15:40	A.M.	
pH Temperature	SM 2550B	24.7	°C		07/24/18 15:40	A.M.	
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	45.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	3.29	NTU's		07/24/18 15:50	A.M.	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U

OCL - OCL Analytical Services ELAP# 10510
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08/16/2018

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Sample Number: 343173-02
 Project:
 Description:
 Location:
 Sample Point: S - 1

Date Sampled: 07/24/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Chloromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Dibromomethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotec Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

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Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:45
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343173-02
 Project:
 Description:
 Location:
 Sample Point: S - 1

Date Sampled: 07/24/2018 11:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Styrene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/25/18 5:59	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/25/18 5:59	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

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Date Received: 07/24/2018 0:00
Date Complete: 08/16/2018 15:45
Date Reported: 08/16/2018 16:30
Date Printed: 08/16/2018 16:30

Sample Number: 343173-02
Project:
Description:
Location:
Sample Point: S - 1

Date Sampled: 07/24/2018 11:00
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142
pH is not NELAC certified.
Temperature is not NELAC certified.

Approved By



Lisa McClinton
Lab Manager

Sample Number: 343173-02
The reported results relate only to the sample identified above.

Qualifiers

- g = Result fails applicable drinking water standards
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/16/2018 Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name
 KC Engineering
 Address
 City, State, Zip
 Phone

Bill to:

Sample Temp (c) 24.9
 Sample rec'd on ice? NY
 Sample set up in 6 hr? NY
 Properly preserved? NY
 Within holding times? _____
 Reviewed by _____

**Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C**

OC#	OC#	Collection Date	Collection Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required
<u>S-1</u>	<u>34317301</u>	<u>07/24</u>	<u>11:00 AM</u>				<u>S-1</u>	<u>125 mL</u>	<u>none</u>		<u>Total Coliform</u>
	<u>02a</u>							<u>500ml - P</u>	<u>none</u>		<u>Alkalinity</u>
	<u>b</u>							<u>500ml - P</u>	<u>none</u>		<u>Nitrate, nitrite</u>
	<u>c</u>							<u>500ml - P</u>	<u>none</u>		<u>pH, odor, turbidity, color</u>
	<u>d</u>							<u>1L P</u>	<u>none</u>		<u>TDS, fluoride, chloride</u>
	<u>e</u>							<u>500ml P</u>	<u>HNO3</u>		<u>Ca Hardness</u>
	<u>f</u>							<u>250ml P</u>	<u>HNO3</u>		<u>Fe, Mn, Na</u>
	<u>g</u>							<u>2-40ml vial</u>	<u>HCl</u>		<u>VOC + MTBE</u>

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
<u>DAVIDE CAZULLO</u>		<u>[Signature]</u>	<u>07/24</u>	<u>11:00 AM</u>				<u>AK</u>	<u>7-31-18</u>
Relinquished By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
Relinquished By:	print	sign	date:	time:	Received By:	print	sign	date:	time:
Relinquished By:	print	sign	date:	time:	Received By:	print	sign	date:	time:

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Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:08
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343219-02
 Project:
 Description:
 Location:
 Sample Point: S - 2

Date Sampled: 07/25/2018 11:15
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Non Potable							
Alkalinity as CaCO3	SM 2320B-2011	<10.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	9.98	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	60.0	CU's		07/25/18 15:40	JR	
Fe							
Iron, Fe	EPA 200.7	0.430	mg/L	08/07/18 1:00	08/08/18 9:49	EL	g
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Non Potable							
Hardness as CaCO3, Calcium	SM 3500-Ca-B-2011	16.0	mg/L		08/01/18 11:00	A.M.	
Mn							
Manganese, Mn	EPA 200.7	0.0830	mg/L	08/07/18 1:00	08/08/18 9:49	EL	
Na							
Sodium, Na	EPA 200.7	8.40	mg/L	08/07/18 1:00	08/08/18 9:49	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	0.0811	mg/L		07/27/18 0:00	LM	
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 14:30	JR	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

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EC: 

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Sample Number: 343219-02
 Project:
 Description:
 Location:
 Sample Point: S - 2

Date Sampled: 07/25/2018 11:15
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Odor							
Odor at 60C	SM 18-22 2150B (-97)	None			07/25/18 15:45	JR	
pH							
pH	SM 20 4500-H+ B	6.41			07/25/18 14:40	JR	N
pH Temperature	SM 2550B	22.0	°C		07/25/18 14:40	JR	N
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	33.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	1.55	NTU's		07/25/18 16:10	JR	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

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Sample Number: 343219-02
 Project:
 Description:
 Location:
 Sample Point: S - 2

Date Sampled: 07/25/2018 11:15
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Dibromomethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

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 Date Printed: 08/21/2018 14:13

Sample Number: 343219-02
 Project:
 Description:
 Location:
 Sample Point: S - 2

Date Sampled: 07/25/2018 11:15
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Styrene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/27/18 7:00	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/27/18 7:00	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

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Date Received: 07/25/2018 0:00
Date Complete: 08/21/2018 12:08
Date Reported: 08/21/2018 14:13
Date Printed: 08/21/2018 14:13

Sample Number: 343219-02
Project:
Description:
Location:
Sample Point: S - 2

Date Sampled: 07/25/2018 11:15
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142

Approved By



Lisa McClinton
Lab Manager

Sample Number: 343219-02

The reported results relate only to the sample identified above.

Qualifiers

- g = Result fails applicable drinking water standards
- N = Parameter is not NELAP certified
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

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Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:47
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30


Sample Number: 343174-01
 Project:
 Description:
 Location:
 Sample Point: S - 3

Date Sampled: 07/24/2018 12:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	>2419.2	cfu/100mL		07/24/18 16:20	JR	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	344.8	cfu/100mL		07/24/18 16:20	JR	

Sample Number: 343174-01

The reported results relate only to the sample identified above.

Approved By 

 Lisa McClinton
 Lab Manager

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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 Date Reported: 08/16/2018 16:30
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Sample Number: 343174-02
 Project:
 Description:
 Location:
 Sample Point: S - 3

Date Sampled: 07/24/2018 12:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Non Potable							
Alkalinity as CaCO ₃	SM 2320B-2011	<10.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	13.8	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	80.0	CU's		07/24/18 15:40	A.M.	
pH	SM 20 4500-H+ B	6.41			07/24/18 15:40	A.M.	
pH Temperature	SM 2550B	23	°C		07/24/18 15:40	A.M.	
Fe							
Iron, Fe	EPA 200.7	0.300	mg/L	07/31/18 10:00	08/01/18 10:05	EL	
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Non Potable							
Hardness as CaCO ₃ , Calcium	SM 3500-Ca-B-2011	20.0	mg/L		07/25/18 12:45	JR	
Mn							
Manganese, Mn	EPA 200.7	0.0460	mg/L	07/31/18 10:00	08/01/18 10:05	EL	
Na							
Sodium, Na	EPA 200.7	10.0	mg/L	07/31/18 10:00	08/01/18 10:05	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	0.0894	mg/L		07/25/18 0:00	LM	

OCL - OCL Analytical Services ELAP# 10510
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08/16/2018

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Date Received: 07/24/2018 0:00
 Date Complete: 08/16/2018 15:47
 Date Reported: 08/16/2018 16:30
 Date Printed: 08/16/2018 16:30

Sample Number: 343174-02
 Project:
 Description:
 Location:
 Sample Point: S - 3

Date Sampled: 07/24/2018 12:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite - Non Potable							
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 10:40	A.M.	
Odor							
Odor at 60C	SM 18-22 2150B (-97)	None			07/24/18 16:00	A.M.	
pH							
pH	SM 20 4500-H+ B	6.41			07/24/18 15:40	A.M.	
pH Temperature	SM 2550B	22.9	°C		07/24/18 15:40	A.M.	
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	58.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	1.57	NTU's		07/24/18 15:50	A.M.	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

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KC Engineering and Land Surveying
 2142 Route 302
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Date Sampled: 07/24/2018 12:00
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 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Chloromethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Dibromomethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U

OCL - OCL Analytical Services ELAP# 10510
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Sample Number: 343174-02
 Project:
 Description:
 Location:
 Sample Point: S - 3

Date Sampled: 07/24/2018 12:00
 Sampled By: Davide Cazzulo
 Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Styrene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/25/18 6:36	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/25/18 6:36	EL	U

OCL - OCL Analytical Services ELAP# 10510
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Sample Number: 343174-02
Project:
Description:
Location:
Sample Point: S - 3

Date Sampled: 07/24/2018 12:00
Sampled By: Davide Cazzulo
Matrix:

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
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EL = Analysis by Envirotest Laboratories #10142
pH is not NELAC certified.
Temperature is not NELAC certified.

Approved By



Lisa McClinton
Lab Manager

Sample Number: 343174-02

The reported results relate only to the sample identified above.

Qualifiers

U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/16/2018

Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name	
Address	
City, State, Zip	
Phone	

Bill to:

Sample Temp (C) 27.9
 Sample rec'd on ice? 4
 Sample set up in 6 hr? 4
 Properly preserved? 4
 Within holding times?
 Reviewed by

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
53	07/24	12:00PM				S-3	125 mL	none		Total Coliform <u>Blank MPN</u>
34317401							500ml - P	none		Alkalinity
020							500ml - P	none		Nitrate, nitrite
b							500ml - P	none		pH, odor, turbidity, color
c							1L P	none		TDS, fluoride, chloride
d							500ml P	HNO3		Ca Hardness
e										
f							250ml P	HNO3		Fe, Mn, Na
g/h							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	sign	date:	07/24	time:	12:00PM	Received By:	print	sign	date:	7-24-78	time:	3:10
Relinquished By:	print	sign	date:		time:		Received By:	print	sign	date:		time:	
Relinquished By:	print	sign	date:		time:		Received By:	print	sign	date:		time:	
Relinquished By:	print	sign	date:		time:		Received By:	print	sign	date:		time:	

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Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:12
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343220-01
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 1

Date Sampled: 07/25/2018 11:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	<1.0	cfu/100mL		07/25/18 15:50	A.M.	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	<1.0	cfu/100mL		07/25/18 15:50	A.M.	

Approved By 

 Lisa McClinton
 Lab Manager

Sample Number: 343220-01
 The reported results relate only to the sample identified above.

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Sample Number: 343220-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 1

Date Sampled: 07/25/2018 11:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Potable							
Alkalinity as CaCO ₃	SM 18-22 2320B (-97)	33.5	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	<4.00	mg/L		07/31/18 0:00	JR	
Color - Potable							
Color (apparent)	SM 18-22 2120B (-01)	10.0	CU's		07/25/18 15:40	JR	
pH	SM 20 4500-H+ B	6.48			07/25/18 14:40	JR	N
pH Temperature	SM 2550B	19.9	°C		07/25/18 14:40	JR	N
Fe							
Iron, Fe	EPA 200.7	2.30	mg/L	07/31/18 10:28	07/31/18 9:44	EL	g
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Potable							
Hardness as CaCO ₃ , Calcium	SM 20-22 3500-Ca B (-97)	24.0	mg/L		08/01/18 11:00	A.M.	
Mn							
Manganese, Mn	EPA 200.7	<0.010	mg/L	07/31/18 10:28	07/31/18 9:44	EL	U
Na							
Sodium, Na	EPA 200.7	4.50	mg/L	07/31/18 10:28	07/31/18 9:44	EL	
Nitrate and Nitrite - Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	0.267	mg/L		07/27/18 0:00	LM	

OCL - OCL Analytical Services ELAP# 10510
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08/21/2018

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 Sample Point: W - 1

Date Sampled: 07/25/2018 11:45
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 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite - Potable							
Nitrite as N	SM 18-22 4500-NO2 B (-00)	<0.0100	mg/L		07/25/18 14:30	JR	
Odor							
Odor at 60C	SM 18-22 2150B (-97)	None			07/25/18 15:45	JR	
TDS - Potable							
Solids, Total Dissolved	SM 18-22 2540C (-97)	44.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Potable							
Turbidity	SM 18-22 2130 B (-01)	11.4	NTU's		07/25/18 16:10	JR	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U

OCL - OCL Analytical Services ELAP# 10510
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08/21/2018

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Sample Number: 343220-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 1

Date Sampled: 07/25/2018 11:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Dibromomethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U

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08/21/2018

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 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 1

Date Sampled: 07/25/2018 11:45
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Styrene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/27/18 5:15	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/27/18 5:15	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
Fax: (845) 733-1944
info@oclanalytical.com
www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919

Date Received: 07/25/2018 0:00
Date Complete: 08/21/2018 12:12
Date Reported: 08/21/2018 14:13
Date Printed: 08/21/2018 14:13

Sample Number: 343220-02
Project:
Description: Well Sample (No Filter)
Location:
Sample Point: W - 1

Date Sampled: 07/25/2018 11:45
Sampled By: Davide Cazzulo
Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142

Approved By



Lisa McClinton
Lab Manager

Sample Number: 343220-02

The reported results relate only to the sample identified above.

Qualifiers

- g = Result fails applicable drinking water standards
- N = Parameter is not NELAP certified
- U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name
 KC Engineering
 Address
 City, State, Zip
 Phone

Bill to:

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Sample Temp (c)
 Sample rec'd on ice?
 Sample set up in 6 hr?
 Properly preserved?
 Within holding times?
 Reviewed by

20.0
NY
NY

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers Not/Type	Preser- vative	Cl resid	Analysis Required
<i>10-1</i>	<i>04/28</i>	<i>11:45AM</i>				<i>WELL SAMPLE (w FILTER)</i>	125 mL	none		<i>Total Coliform</i>
<i>343226-01</i>						<i>W-1</i>	500ml - P	none		<i>MPOV</i>
							500ml - P	none		Alkalinity
							500ml - P	none		Nitrate, nitrite
							500ml - P	none		pH, odor, turbidity, color
							1L P	none		TDS, fluoride, chloride
							500ml P	HNO3		Ca Hardness
							250ml P	HNO3		Fe, Mn, Na
							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions:

Rush Requested?

Client Code: _____

Prepaid? *NO*

Sampled By: *DAVID GATEAU*

date: *4/25*
 time: *11:45AM*

Received By: _____

date: *4/25/08*
 time: *1:00 PM*

Relinquished By: _____

date: _____
 time: _____

Received By: _____

date: _____
 time: _____

Relinquished By: _____

date: _____
 time: _____

Received By: _____

date: _____
 time: _____

Relinquished By: _____

date: _____
 time: _____

Received By: _____

date: _____
 time: _____

OCL Analytical Services
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 2142 Route 302
 Circleville, NY 10919

Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:20
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343221-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 2

Date Sampled: 07/25/2018 19:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Potable							
Alkalinity as CaCO ₃	SM 18-22 2320B (-97)	66.0	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	<4.00	mg/L		07/31/18 0:00	JR	
Color - Potable							
Color (apparent)	SM 18-22 2120B (-01)	<5.00	CU's		07/25/18 15:40	JR	
pH	SM 20 4500-H+ B	7.49			07/25/18 14:40	JR	N
pH Temperature	SM 2550B	18.3	°C		07/25/18 14:40	JR	N
Fe							
Iron, Fe	EPA 200.7	<0.060	mg/L	07/31/18 10:28	07/31/18 9:37	EL	U
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Potable							
Hardness as CaCO ₃ , Calcium	SM 20-22 3500-Ca B (-97)	64.0	mg/L		08/01/18 11:00	A.M.	
Mn							
Manganese, Mn	EPA 200.7	<0.010	mg/L	07/31/18 10:28	07/31/18 9:37	EL	U
Na							
Sodium, Na	EPA 200.7	5.60	mg/L	07/31/18 10:28	07/31/18 9:37	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	0.155	mg/L		07/27/18 0:00	LM	

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

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 Date Printed: 08/21/2018 14:13

Sample Number: 343221-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 2

Date Sampled: 07/25/2018 19:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite - Non Potable							
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 14:15	JR	
Odor							
Odor at 60C	SM 18-22 2150B (-97)	None			07/25/18 15:45	JR	
TDS - Potable							
Solids, Total Dissolved	SM 18-22 2540C (-97)	44.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	<0.100	NTU's		07/25/18 16:10	JR	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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 Date Printed: 08/21/2018 14:13

Sample Number: 343221-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 2

Date Sampled: 07/25/2018 19:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Dibromomethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

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Date Received: 07/25/2018 0:00
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 Date Printed: 08/21/2018 14:13

Sample Number: 343221-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 2

Date Sampled: 07/25/2018 19:00
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Styrene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/27/18 4:40	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/27/18 4:40	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

08/21/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
Fax: (845) 733-1944
info@oclanalytical.com
www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
2142 Route 302
Circleville, NY 10919


Date Received: 07/25/2018 0:00
Date Complete: 08/21/2018 12:20
Date Reported: 08/21/2018 14:13
Date Printed: 08/21/2018 14:13

Sample Number: 343221-02
Project:
Description: Well Sample (No Filter)
Location:
Sample Point: W - 2

Date Sampled: 07/25/2018 19:00
Sampled By: Davide Cazzulo
Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142

Approved By 

Lisa McClinton
Lab Manager

Sample Number: 343221-02
The reported results relate only to the sample identified above.

Qualifiers
N = Parameter is not NELAP certified
U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/21/2018 Lab No: 

EC: 

CHAIN OF CUSTODY

Report to:

Name
KC Engineering
Address
City, State, Zip
Phone

Bill to:

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Samples should be brought to the lab ON ICE
with a receiving temp of 2 to 6 C

Sample Temp (c) _____
Sample rec'd on ice? _____
Sample set up in 6 hr? _____
Properly preserved? _____
Within holding times? _____
Reviewed by _____

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers Not/Type	Preser-vative	Pres. To	Analysis Required
02-2	07/25/19	10:04 PM				WGL SAMPLE (NO FILTER)	125 mL	none		Total Coliform
343221-01						W-2				MPPN
ORA							500ml - P	none		Alkalinity
b							500ml - P	none		Nitrate, nitrite
c							500ml - P	none		pH, odor, turbidity, color
d							1L P	none		TDS, fluoride, chloride
e							500ml P	HNO3		Ca Hardness
							250ml P	HNO3		Fe, Mn, Na
							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions:

Rush Requested? _____

Client Code: _____

Prepaid? NO

Sampled By: print DANDE CASANO date: 07/25 time: 12:00 PM

Relinquished By: print [Signature] date: _____ time: _____

Relinquished By: print _____ date: _____ time: _____

Relinquished By: print _____ date: _____ time: _____

Relinquished By: print _____ date: _____ time: _____

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Date Received: 07/25/2018 0:00
Date Complete: 08/21/2018 12:27
Date Reported: 08/21/2018 14:13
Date Printed: 08/21/2018 14:13


Sample Number: 343222-01
Project:
Description: Well Sample (No Filter)
Location:
Sample Point: W - 3

Date Sampled: 07/25/2018 10:15
Sampled By: Davide Cazzulo
Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Coliform MPN							
Coliform, Total MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	<1.0	cfu/100mL		07/25/18 15:50	A.M.	
E.coli MPN (ONPG)	SM 18-22 9223B (-97, -04) (Colilert)	<1.0	cfu/100mL		07/25/18 15:50	A.M.	

Sample Number: 343222-01

The reported results relate only to the sample identified above.

Approved By 
Lisa McClinton
Lab Manager

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/21/2018 Lab No: 

EC: 

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Date Received: 07/25/2018 0:00
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 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343222-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 3

Date Sampled: 07/25/2018 10:15
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Alkalinity Potable							
Alkalinity as CaCO ₃	SM 18-22 2320B (-97)	143	mg/L		07/31/18 0:00	A.M.	
Chloride							
Chloride	SM 21-22 4500-Cl- C (-97)	<4.00	mg/L		07/31/18 0:00	JR	
Color - Non Potable							
Color (apparent)	SM 2120B-2011	<5.00	CU's		07/25/18 15:40	JR	
pH	SM 20 4500-H+ B	7.29			07/25/18 14:40	JR	N
pH Temperature	SM 2550B	20.5	°C		07/25/18 14:40	JR	N
Fe							
Iron, Fe	EPA 200.7	<0.060	mg/L	07/31/18 10:28	07/31/18 9:50	EL	U
Fluoride							
Fluoride, Total	SM 18-22 4500-F C (-97)	<0.200	mg/L		07/31/18 0:00	JR	
Hardness, Calcium - Potable							
Hardness as CaCO ₃ , Calcium	SM 20-22 3500-Ca B (-97)	86.0	mg/L		08/01/18 11:00	A.M.	
Mn							
Manganese, Mn	EPA 200.7	<0.010	mg/L	07/31/18 10:28	07/31/18 9:50	EL	U
Na							
Sodium, Na	EPA 200.7	21.0	mg/L	07/31/18 10:28	07/31/18 9:50	EL	
Nitrate and Nitrite - Non Potable							
Nitrate/Nitrite as N	LACHAT 10-107-4-1C	<0.0500	mg/L		07/27/18 0:00	LM	

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 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343222-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 3

Date Sampled: 07/25/2018 10:15
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
Nitrate and Nitrite - Non Potable							
Nitrite as N	SM 4500-NO2 B-2011	<0.0100	mg/L		07/25/18 14:30	JR	
Odor							
Odor at 60C	SM 18-22 2150B (-97)	None			07/25/18 15:45	JR	
TDS - Non Potable							
Solids, Total Dissolved	SM 2540 C-2011	71.0	mg/L		07/26/18 14:55	A.M.	
Turbidity - Non Potable							
Turbidity	SM 2130 B-2011	0.113	NTU's		07/25/18 16:10	JR	
VOC's 524.2							
Benzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Bromobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Bromochloromethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Bromomethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
n-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
sec-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
tert-Butylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Carbon tetrachloride	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Chlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Chloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Chloromethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
2-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
4-Chlorotoluene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U

OCL - OCL Analytical Services ELAP# 10510
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08/21/2018

Lab No: 

EC: 

OCL Analytical Services
35 Goshen Turnpike
Bloomington NY 12721

Phone: (845) 733-1557
 Fax: (845) 733-1944
 info@oclanalytical.com
 www.oclanalytical.com

Certificate of Analysis

KC Engineering and Land Surveying
 2142 Route 302
 Circleville, NY 10919

Date Received: 07/25/2018 0:00
 Date Complete: 08/21/2018 12:27
 Date Reported: 08/21/2018 14:13
 Date Printed: 08/21/2018 14:13

Sample Number: 343222-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 3

Date Sampled: 07/25/2018 10:15
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Dibromomethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,3-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,4-Dichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Dichlorodifluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2-Dichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
cis-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
trans-1,2-Dichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,3-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
2,2-Dichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
cis-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
trans-1,3-Dichloropropene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Ethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Hexachlorobutadiene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Isopropylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
p-Isopropyltoluene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Methylene chloride	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
n-Propylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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Sample Number: 343222-02
 Project:
 Description: Well Sample (No Filter)
 Location:
 Sample Point: W - 3

Date Sampled: 07/25/2018 10:15
 Sampled By: Davide Cazzulo
 Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
VOC's 524.2							
Styrene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1,1,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1,2,2-Tetrachloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Tetrachloroethene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Toluene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2,3-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2,4-Trichlorobenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1,1-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,1,2-Trichloroethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Trichloroethene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Trichlorofluoromethane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2,3-Trichloropropane	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,2,4-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
1,3,5-Trimethylbenzene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
m-Xylene & p-Xylene	EPA 524.2	<1.0	ug/L		07/27/18 6:25	EL	U
o-Xylene	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Methyl tert-butyl ether	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U
Vinyl chloride	EPA 524.2	<0.50	ug/L		07/27/18 6:25	EL	U

OCL - OCL Analytical Services ELAP# 10510
 EL - Envirotest Laboratories ELAP# 10142

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Sample Number: 343222-02
Project:
Description: Well Sample (No Filter)
Location:
Sample Point: W - 3

Date Sampled: 07/25/2018 10:15
Sampled By: Davide Cazzulo
Matrix: Drinking Water

Test	Method	Result	Units	Prep Date	Test Date	Initials	Quals.
------	--------	--------	-------	-----------	-----------	----------	--------

EL = Analysis by Envirotest Laboratories #10142

Approved By 

Lisa McClinton
Lab Manager

Sample Number: 343222-02
The reported results relate only to the sample identified above.

Qualifiers
N = Parameter is not NELAP certified
U = The analyte was analyzed for but not detected at or above the stated limit.

OCL - OCL Analytical Services ELAP# 10510
EL - Envirotest Laboratories ELAP# 10142

08/21/2018 Lab No: 

EC: 

CHAIN OF CUSTODY

OCL Analytical Services
 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to: Name KC Engineering
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: _____

Sample Temp (c) 20.0
 Sample rec'd on ice? N
 Sample set up in 6 hr? Y
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
with a receiving temp of 2 to 6 C

OCN Number	Collection Date	Time	comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Analysis Required
6003 343223-01	07/25	10:15AM				WELL SAMPLE (NO FILTER) W-3	125 mL	none	Total Coliform MPN
02a							500ml - P	none	Alkalinity
b							500ml - P	none	Nitrate, nitrite
c							500ml - P	none	pH, odor, turbidity, color
d							1L P	none	TDS, fluoride, chloride
e							500ml P	HNO3	Ca Hardness
f							250ml P	HNO3	Fe, Mn, Na
ghi							2-40ml vial	HCl	VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By: _____	print sign	DAVIDE CAZZULO	date: 07/25	time: 10:45AM	date: 07/25	time: 1:40
Relinquished By: _____	print sign	_____	date: _____	time: _____	date: _____	time: _____
Relinquished By: _____	print sign	_____	date: _____	time: _____	date: _____	time: _____
Relinquished By: _____	print sign	_____	date: _____	time: _____	date: _____	time: _____

CHAIN OF CUSTODY

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Report to:

Name	KC Engineering
Address	
City, State, Zip	
Phone	

Bill to:

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
L-1	09/25	11:00 AM				LAKE SAMPLE	125 mL	none		Tetral-Cellform <u>NON</u>
							500ml - P	none		Alkalinity
							500ml - P	none		Nitrate, nitrite
							500ml - P	none		pH, odor, turbidity, color
							1L P	none		TDS, fluoride, chloride
							500ml P	HNO3		Ca Hardness
							250ml P	HNO3		Fe, Mn, Na
							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print	DAVIDS	date:	09/25	print	Received By:	print	sign	_____	date:	09/25/19	time:	1:40
Relinquished By:	print	_____	date:	_____	sign	Received By:	print	sign	_____	date:	_____	time:	_____
Relinquished By:	print	_____	date:	_____	sign	Received By:	print	sign	_____	date:	_____	time:	_____
Relinquished By:	print	_____	date:	_____	sign	Received By:	print	sign	_____	date:	_____	time:	_____

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Report to:

Name	KC Engineering
Address	
City, State, Zip	
Phone	

Bill to:

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Matrix	grab	comp	Collection Date	Time	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required
			07/04	11:30 AM	L-2	125 mL	none		Total Coliform
						500ml - P	none		Alkalinity
						500ml - P	none		Nitrate, nitrite
						500ml - P	none		pH, odor, turbidity, color
						1L P	none		TDS, fluoride, chloride
						500ml P	HNO3		Ca Hardness
						250ml P	HNO3		Fe, Mn, Na
						2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Prepaid? NO Client Code: _____

Sampled By: print sign	DAVIDE CAZENO	date: 07/04	time: 11:30 AM	Received By: print sign	RA	date: 7-24-18	time: 9:40
Relinquished By: print sign		date: _____	time: _____	Received By: print sign		date: _____	time: _____
Relinquished By: print sign		date: _____	time: _____	Received By: print sign		date: _____	time: _____
Relinquished By: print sign		date: _____	time: _____	Received By: print sign		date: _____	time: _____

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Report to: Name KC Engineering
 Address _____
 City, State, Zip _____
 Phone _____

Bill to: _____

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	Cl resid	Analysis Required
S-1	07/24	11:00 AM				S-1	125 mL	none		Total Coliform
							500ml - P	none		Alkalinity
							500ml - P	none		Nitrate, nitrite
							500ml - P	none		pH, odor, turbidity, color
							1L P	none		TDS, fluoride, chloride
							500ml P	HNO3		Ca Hardness
							250ml P	HNO3		Fe, Mn, Na
							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: NU Prepaid? _____

Sampled By: print sign <u>DAVID CAZZULO</u>	date: <u>07/24</u>	time: <u>11:40 AM</u>	Received By: print sign _____	date: <u>7-24-08</u>	time: <u>3:17 PM</u>
Relinquished By: print sign _____	date: _____	time: _____	Received By: print sign _____	date: _____	time: _____
Relinquished By: print sign _____	date: _____	time: _____	Received By: print sign _____	date: _____	time: _____
Relinquished By: print sign _____	date: _____	time: _____	Received By: print sign _____	date: _____	time: _____

CHAIN OF CUSTODY

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 35 Goshen Turnpike, Bloomingburg, NY 12721
 Phone (845)733-1557 Fax (845)733-1944

Report to:

Name	KC Engineering
Address	
City, State, Zip	
Phone	

Bill to:

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCCL Number	Collection Date Time	comp	grab	Matrix	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required
S-2	07/25 11:55 AM				5x REE SAMPLE	125 mL	none		Total Coliform <i>MDM</i>
						500ml - P	none		Alkalinity
						500ml - P	none		Nitrate, nitrite
						500ml - P	none		pH, odor, turbidity, color
						1L P	none		TDS, fluoride, chloride
						500ml P	HNO3		Ca Hardness
						250ml P	HNO3		Fe, Mn, Na
						2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? *No*

Sampled By:	print sign	DAVIDE CAPERNO	date: 07/25	time: 11:55 AM	date: 7/25/18	time: 1:45
Relinquished By:	print sign	<i>[Signature]</i>	date:	time:	date:	time:
Relinquished By:	print sign		date:	time:	date:	time:
Relinquished By:	print sign		date:	time:	date:	time:

CHAIN OF CUSTODY

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Report to:

Name	KC Engineering
Address	
City, State, Zip	
Phone	

Bill to:

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Collection Time	Comp	grab	matrix	Sample Description/Location	Containers No/type	Preservative	Cl res'd	Analysis Required
5-3	02/24	12:00PM				S-3	125 mL	none		Total Coliform
							500ml - P	none		Alkalinity
							500ml - P	none		Nitrate, nitrite
							500ml - P	none		pH, odor, turbidity, color
							1L P	none		TDS, fluoride, chloride
							500ml P	HNO3		Ca Hardness
							250ml P	HNO3		Fe, Mn, Na
							2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: NO Prepaid? _____

Sampled By:	print sign	DAVIDE CASARE	date: 01/24	time: 12:00PM	print sign	Received By:	print sign	RT	date: 7-24-78	time: 3:10
Relinquished By:	print sign		date:	time:	print sign	Received By:	print sign		date:	time:
Relinquished By:	print sign		date:	time:	print sign	Received By:	print sign		date:	time:
Relinquished By:	print sign		date:	time:	print sign	Received By:	print sign		date:	time:

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Report to:

Name	KC Engineering
Address	
City, State, Zip	
Phone	

Bill to:

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

Matrix	Collection Date	Time	Comp	grab	Sample Description/Location	Containers No/type	Preservative	Cl resist	Analysis Required
	01/28	11:40AM			WELL SAMPLE (NO FILTER)	125 mL	none		Total Coliform MPN
						500ml - P	none		Alkalinity
						500ml - P	none		Nitrate, nitrite
						500ml - P	none		pH, odor, turbidity, color
						1L P	none		TDS, fluoride, chloride
						500ml P	HNO3		Ca Hardness
						250ml P	HNO3		Fe, Mn, Na
						2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? No

Sampled By: print sign	DAVIDE CARTELO	date: 01/28	time: 11:40	Received By: print sign	[Signature]	date: 01/28	time: 1:40
Relinquished By: print sign	[Signature]	date: _____	time: _____	Received By: print sign	_____	date: _____	time: _____
Relinquished By: print sign	_____	date: _____	time: _____	Received By: print sign	_____	date: _____	time: _____
Relinquished By: print sign	_____	date: _____	time: _____	Received By: print sign	_____	date: _____	time: _____

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Bill to:

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date Time	comp	grab	matrix	Sample Description/Location	Containers No/Type	Preservative	Cl resid	Analysis Required
W-2	09/25/19 10:00 AM				WELL SAMPLE (NO FILTER)	125 mL	none		Totat-Codiform MDN
						500ml - P	none		Alkalinity
						500ml - P	none		Nitrate, nitrite
						500ml - P	none		pH, odor, turbidity, color
						1L P	none		TDS, fluoride, chloride
						500ml P	HNO3		Ca Hardness
						250ml P	HNO3		Fe, Mn, Na
						2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: _____ Prepaid? NO

Sampled By:	print sign	DAVIDE CASERLO	date: 09/25/19	time: 10:00 PM	print sign	Received By:	print sign	_____	date: 09/25/19	time: 1:40
Relinquished By:	print sign	_____	date: _____	time: _____	print sign	Received By:	print sign	_____	date: _____	time: _____
Relinquished By:	print sign	_____	date: _____	time: _____	print sign	Received By:	print sign	_____	date: _____	time: _____
Relinquished By:	print sign	_____	date: _____	time: _____	print sign	Received By:	print sign	_____	date: _____	time: _____

CHAIN OF CUSTODY

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Report to: Name KC Engineering
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Bill to: _____

Sample Temp (c) _____
 Sample rec'd on ice? _____
 Sample set up in 6 hr? _____
 Properly preserved? _____
 Within holding times? _____
 Reviewed by _____

Samples should be brought to the lab ON ICE
 with a receiving temp of 2 to 6 C

OCL Number	Collection Date	Time	Matrix	Sample Description/Location	Containers No/type	Preservative	Residue	Analysis Required
W-3	09/25	10:15AM		WELL SAMPLE (NO FILTER)	125 mL	none		Total coliform MPN
					500ml - P	none		Alkalinity
					500ml - P	none		Nitrate, nitrite
					500ml - P	none		pH, odor, turbidity, color
					1L P	none		TDS, fluoride, chloride
					500ml P	HNO3		Ca Hardness
					250ml P	HNO3		Fe, Mn, Na
					2-40ml vial	HCl		VOC + MTBE

Comments/Special Instructions: _____

Rush Requested? _____ Client Code: NO Prepaid? NO

Sampled By: <u>DAVIDE CATENO</u>	print sign	date: <u>09/25</u>	print sign	date: <u>09/25</u>
Relinquished By: _____	print sign	time: <u>10:45AM</u>	print sign	time: <u>1:40</u>
Relinquished By: _____	print sign	date: _____	print sign	date: _____
Relinquished By: _____	print sign	time: _____	print sign	time: _____

Appendix D: Calibration Documents

Round 1

INSTRUMENT CALIBRATION REPORT



Advanced Labs, Inc.

Pine Environmental Services, Inc

Instrument ID 18184
Description TSI 8530 DustTrak II
Calibrated 9/7/2017

Manufacturer TSI
Model Number 8530
Serial Number 8530111721
Location New Jersey
Temp 76

Classification
Status pass
Frequency Yearly EOM
Department Lab
Humidity 33

Calibration Specifications

Group # 1
Group Name Arizona Road Dust
Test Performed: Yes As Found Result: Fail As Left Result: Pass

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>(As Of Cal Entry Date)</u>	
				<u>Last Cal Date</u>	<u>Next Cal Date</u>
DUST TRAK	TSI Dust Trak DRX	TSI	8533151105	4/13/2017	4/13/2018
DRX MASTER 8533151105	Aerosol Monitor				

Notes about this calibration

Calibration Ratio: 0.90

Calibration Result Calibration Successful
Who Calibrated David Galego

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20

Windsor, NJ 08561

Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 3772
Description Jerome 431-X
Calibrated 10/13/2017 1:31:02PM

Manufacturer Arizona
Model Number 431-X
Serial Number/ Lot Number 431-1480
Location New Jersey
Department

State Certified
Status Pass
Temp °C 22.2
Humidity % 39

Calibration Specifications

Group # 1
Group Name Regen, Zero Test, and Sample
Test Performed: Yes **As Found Result: Pass** **As Left Result: Pass**

Test Instruments Used During the Calibration

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>(As Of Cal Entry Date)</u>	
					<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Daniel Teller

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT QC/ PACKING LIST

Description	Arizona Instruments Jerome 431-X
Instrument ID	
Date Prepared	
Factory Cal. Date	



Standard Items	Prepared	QC check	Received by customer	Returned to Pine
Jerome 431-X w/ hard case	_____	_____	_____	_____
Manual	X _____	_____	_____	_____
Quick reference card	X _____	_____	_____	_____
Charging cord	_____	_____	_____	_____
Probe	X _____	_____	_____	_____
Probe adapter/ fritware holder	X _____	_____	_____	_____
Zero air filter	X _____	_____	_____	_____
Spare fritware filters (2)	X _____	_____	_____	_____
Trimmer tool	X _____	_____	_____	_____
ProCal inspection report	_____	_____	_____	_____
Current factory calibration certificate	_____	_____	_____	_____
Optional Items				
Datalogger	_____	_____	_____	_____
Jerome JCI Comm. Software	_____	_____	_____	_____
Jerome comm. cable	_____	_____	_____	_____
USB software key	_____	_____	_____	_____
Serial to USB adapter	_____	_____	_____	_____

Prepared by: D.J.

QC checked by: _____

Date: _____

This packing list is to ensure that every item needed to operate the unit was sent and received. Upon receiving a shipment, please fill out the "Received by customer" column. Call Pine within 24 hours of receiving the equipment if any pieces are missing, damaged, or malfunctioning. Thank you for choosing Pine Environmental Services LLC.

ARIZONA INSTRUMENT LLC
3375 N. Delaware St., Chandler, AZ 85225
(800) 528-7411 • (602) 470-1414
www.azic.com • customerservice@azic.com



Certification of Instrument Calibration

Pine Environmental
92 N. Main St, Bldg 20
Windsor, NJ 08561

RMA # 2459413

This is to certify that the Jerome X431 0001 Gold Film Mercury Analyzer, Serial Number 1480, with Sensor Number 11-8-3-W4C, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual	Calibration Gas	Allowable Range
Incoming:	Level 1	0.094 mg/m ³ Hg	0.102 mg/m ³ Hg	0.097 - 0.107 mg/m ³ Hg
	RSD %	3.59		<5%
Outgoing:	Level 1	0.099 mg/m ³ Hg	0.102 mg/m ³ Hg	0.097 - 0.107 mg/m ³ Hg
	RSD %	1.09		<3%
	Level 2	mg/m ³ Hg	0.025 mg/m ³ Hg	0.020 - 0.030 mg/m ³ Hg
	SD			<0.005 mg/m ³ Hg
	Level 3	mg/m ³ Hg	0.010 mg/m ³ Hg	0.005 - 0.015 mg/m ³ Hg
	SD		<0.005 mg/m ³ Hg	

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 3.5%

Calibration Date: 24-May-2017 Recalibration Date: 23-May-2018

Temperature °F: 73.70 % Relative Humidity: 20.90

Cheryl Hradek

Approved By: _____
Title: Cheryl Hradek - Quality Control

Date Approved: 26-May-2017

Equipment Used:

Permeation Tube: 498-46842 NIST#: ISO13265; 072958-798-121714
Calibration Date: 27-Jun-2016 Calibration Date Due: 27-Jun-2017

DynaCalibrator: M-812 NIST#: 16-2655
Calibration Date: 30-May-2016 Calibration Date Due: 31-May-2017

Mass Flow Controller A: 54807 NIST#: 145757
Calibration Date: 03-Aug-2016 Calibration Date Due: 03-Aug-2017

Digital Multimeter: 17680239 NIST#: 7002611
Calibration Date: 06-Oct-2016 Calibration Date Due: 06-Oct-2017

Flowmeter: 154482 NIST#: 170503154482_000
Calibration Date: 03-May-2017 Calibration Date Due: 03-May-2018

Calibration Procedure Used: 730-0041

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 905247
Description QRAE III
Calibrated 10/26/2017 4:44:23PM

Manufacturer Rae Systems
Model Number PGM-2400
Serial Number/ Lot Number m02a000813
Location New Jersey
Department

State Certified
Status Pass
Temp °C 22.5
Humidity % 35

Calibration Specifications

				Range Acc %			
				Reading Acc %			
				Plus/Minus			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
Group # 1 Group Name Carbon Monoxide Stated Accy Pct of Range				3.0000			
				0.0000			
				0.00			
50.00 / 50.00	PPM	50.00	PPM	50.00	50.00	0.00%	Pass
Group # 2 Group Name Hydrogen Sulfide Stated Accy Pct of Range				3.0000			
				0.0000			
				0.00			
10.00 / 10.00	PPM	10.00	PPM	10.00	10.00	0.00%	Pass
Group # 3 Group Name Methane Stated Accy Pct of Range				3.0000			
				0.0000			
				0.00			
50.00 / 50.00	%LEL	50.00	%LEL	50.00	50.00	0.00%	Pass
Group # 4 Group Name Oxygen Stated Accy Pct of Range				3.0000			
				0.0000			
				0.00			
18.00 / 18.00	%Volume	18.00	%Volume	18.00	18.00	0.00%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date/ Opened Date</u>	<u>Next Cal Date/ Expiration Date</u>
NJ 4 GAS 18%: BBH-413-18-14	4GAS 18% O2 (H2S 10, CO 50, LEL 50)	Pine	4 Gas NIX	BBH-413-18-1 4		1/27/2019



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20

Windsor, NJ 08561

Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 905247
Description QRAE III
Calibrated 10/26/2017 4:44:23PM

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Giovanni Cino

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT QC/ PACKING LIST

Description	RAE Systems QRAE 3
Instrument ID	
Date Calibrated	



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Standard Items	Prepared	QC check	Received by customer	Returned to Pine
QRAE 3 w/ carry case	_____	_____	_____	_____
Manual	_____✓	_____	_____	_____
Charger clip	_____✓	_____	_____	_____
Probe tip (tubing w/ luer fitting)	_____✓	_____	_____	_____
Charger and cradle	_____✓	_____	_____	_____
(2) Hydrophobic filters	_____✓	_____	_____	_____
ProCal calibration sheet	_____✓	_____	_____	_____
Supporting Items				
18% O ₂ , 50% LEL CH ₄ , 50 ppm CO, and 10 ppm H ₂ S gas mix	_____✓	_____	_____	_____
4-gas mix calibration gas SDS ✓ <i>Must match cylinder with setup</i>	_____✓	_____	_____	_____
0.5 lpm regulator and tubing	_____✓	_____	_____	_____
Calibration T-Fitting	_____✓	_____	_____	_____
ProRAE Studio 2 software and USB cable	_____✓	_____	_____	_____
USB cable comm cable	_____✓	_____	_____	_____
Serial to USB adapter	_____✓	_____	_____	_____
Sample tubing	_____✓	_____	_____	_____

Prepared by: DW

QC checked by: _____

Date: _____

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INSTRUMENT CALIBRATION REPORT



Advanced Labs, Inc.

Pine Environmental Services, Inc

Instrument ID R3209
Description Quest QC-10 Acoustic Calibrator
Calibrated 3/13/2017

Manufacturer Quest
Model Number QC-10
Serial Number Q19040109
Location New Jersey
Temp 72

Classification
Status pass
Frequency Yearly EOM
Department Lab
Humidity 21

Calibration Specifications

Group # 1
Group Name Acoustic Tests Performed
Test Performed: Yes **As Found Result:** Pass **As Left Result:** Pass

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>(As Of Cal Entry Date)</u>	
				<u>Last Cal Date</u>	<u>Next Cal Date</u>
B&K 4226	Brüel & Kjær 4226	Brüel & Kjær	2590968	3/15/2016	3/15/2017
B&K 4228	Brüel & Kjær 4228	Brüel & Kjær	2667476	3/15/2016	3/15/2017
FLUKE 114	Fluke 114 NIST Traceable Multimeter	Fluke	15310288	5/6/2016	5/6/2017

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated David Galego

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.

INSTRUMENT QC/ PACKING LIST

Description	QUEST SoundPro	
Instrument ID	29557	
QC-10 ID and annual cal. date	P3209	3-13-17
Date Prepared	10-25-17	
Annual cal. date	10-25-17	



Standard Items	Prepared	QC check	Received by customer	Returned to Pine
QUEST SoundPro and hard case	✓	✓	_____	_____
Manual	✓	✓	_____	_____
Microphone	✓	✓	_____	_____
Microphone windscreen	✓	✓	_____	_____
(4) extra AA Alkaline batteries	✓	✓	_____	_____
ProCal inspection report	✓	✓	_____	_____
Annual calibration sheet	✓	✓	_____	_____
Optional Items				
QC-10 calibrator w/ SoundPro adapter	_____	✓	_____	_____
(1) Extra 9V Battery	_____	_____	_____	_____
Communications cable	✓	✓	_____	_____
QuestSuite Pro 2 software	✓	✓	_____	_____
Serial to USB adapter with driver	N/A	_____	_____	_____
AC power adapter	✓	✓	_____	_____

Prepared by: W.W
 QC checked by: LC
 Date: 10-26-17

This packing list is to ensure that every item needed to operate the unit was sent and received. Upon receiving a shipment, please fill out the "Received by customer" column. Call Pine within 24 hours of receiving the equipment if any pieces are missing, damaged, or malfunctioning. Thank you for choosing Pine Environmental Services LLC.



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 29557
Description Quest SoundPro SE
Calibrated 10/25/2017 10:53:32AM

Manufacturer Quest	State Certified
Model Number SoundPro SE	Status Pass
Serial Number/ Lot Number BLN050004	Temp °C 23.8
Location New Jersey	Humidity % 44
Department	

Calibration Specifications

Group # 1
Group Name Calibrated @ 114.0dB
w/QC-10

Test Performed: Yes **As Found Result:** Pass **As Left Result:** Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Expiration Date</u>	<u>Last Cal Date / Opened Date</u>
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Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated William Wright

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

INSTRUMENT CALIBRATION REPORT



Advanced Labs, Inc.

Pine Environmental Services, Inc

Instrument ID 29557
Description Quest SoundPro DL-1-1/3
Calibrated 10/25/2017

Manufacturer Quest
Model Number SoundPro DL-1-1/3
Serial Number BLN050004
Location New Jersey
Temp 76

Classification
Status pass
Frequency Yearly EOM
Department Lab
Humidity 43

Calibration Specifications

Group # 1
Group Name Acoustic Tests Performed
Test Performed: Yes **As Found Result: Fail** **As Left Result: Pass**

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>(As Of Cal Entry Date)</u>	
				<u>Last Cal Date</u>	<u>Next Cal Date</u>
B&K 4226	Brüel & Kjær 4226	Brüel & Kjær	2590968	4/24/2017	4/24/2018
B&K 4228	Brüel & Kjær 4228	Brüel & Kjær	2667476	4/5/2017	4/5/2018

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Kevin Cole

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 16352
Description Davis Vantage Pro 2
Calibrated 10/9/2017 4:26:57PM

Manufacturer Davis	State Certified
Model Number Vantage Pro 2	Status Pass
Serial Number/ Lot Number A00330A028	Temp °C 25.7
Location New Jersey	Humidity % 64
Department	

Calibration Specifications

Group # 1	
Group Name	
Test Performed: Yes	As Found Result: Pass As Left Result: Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Last Cal Date / Expiration Date / Opened Date</u>
-------------------------	--------------------	---------------------	---------------------	-----------------------------------	--

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated William Wright

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance**

INSTRUMENT QC/ PACKING LIST

Description	Davis Vantage Pro 2 Weather Station
Instrument ID	16352
Date Prepared	10-9-17



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Standard Items	Prepared	QC check	Received by customer	Returned to Pine
Console/Display	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rain collector	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solar panel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anemometer and wind cup assembly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manuals <ul style="list-style-type: none"> • Weatherlink • Console manual • ISS manual 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weatherlink software	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3) Spare 'C' Batteries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mounting hardware <ul style="list-style-type: none"> • 4 nuts • 4 washers • 2 U-brackets 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communications Cable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A/C Adapter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ProCal inspection report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Optional Items				
Tripod	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Prepared by: W.W.
QC checked by: _____
Date: _____

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INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 10452
Description VRAE
Calibrated 10/27/2017 11:28:09AM

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ 4 GAS 20.9% O2: BBH-412-12	4GAS 20.9% O2, 25H2S, 50CO, 50LEL	Pine Environmental Services, Inc.	4 GAS MIX 20.9%	BBH-412-12	5/17/2017	1/27/2019
NJ NO 25PPM	NITRIC OXIDE 25PPM	Calgaz		1802262	2/1/2015	2/1/2016
NJ NO2 : 10102-44-0	Pine Environmental Inc.	Pine Environmental Services, Inc.	GP12365	10102-44-0		

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Silas Saye

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance**

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 10452
Description VRAE
Calibrated 10/27/2017 11:28:09AM

Manufacturer Rae Systems	State Certified
Model Number PGM7800	Status Pass
Serial Number/ Lot Number 170-102292	Temp °C 21.7
Location New Jersey	Humidity % 36
Department	

Calibration Specifications

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
Group # 1 Group Name NO Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0			
25 / 25	PPM	25	PPM	25	25	0.00%	Pass
Group # 2 Group Name Hydrogen Sulfide Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0			
25 / 25	PPM	25	PPM	25	25	0.00%	Pass
Group # 3 Group Name Methane Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0			
50 / 50	%LEL	50	%LEL	50	50	0.00%	Pass
Group # 4 Group Name Oxygen Stated Accy Pct of Reading				Range Acc % 0.0000 Reading Acc % 3.0000 Plus/Minus 0.0			
20.9 / 20.9	%	20.9	%	20.9	20.9	0.00%	Pass
Group # 5 Group Name NO2 Stated Accy Pct of Range				Range Acc % 0.0000 Reading Acc % 0.0000 Plus/Minus 0.00			
10.00 / 10.00	PPM	10.00	PPM	10.00	10.00	0.00%	Pass

INSTRUMENT QC/ PACKING LIST

Description	RAE Systems VRAE
Instrument ID	
Date Calibrated	



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Standard Items	Prepared	QC check	Received by customer	Returned to Pine
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VRAE and carry case	_____	_____	_____	_____
Protective rubber boot	_____	_____	_____	_____
Manual	✓	_____	_____	_____
Quick reference card	✓	_____	_____	_____
Probe tip	_____	_____	_____	_____
Charger	_____	_____	_____	_____
(2) Hydrophobic filters	✓	_____	_____	_____
Alkaline battery adapter	✓	_____	_____	_____
(4) AA Alkaline batteries	✓	_____	_____	_____
ProCal calibration sheet	_____	_____	_____	_____

Supporting Items

4-gas mix calibration gas	✓	_____	_____	_____
4-gas mix SDS	_____	_____	_____	_____
✓ <i>Must match cylinder with setup</i>	_____	_____	_____	_____
_____ calibration gas	_____	_____	_____	_____
_____ calibration gas SDS	_____	_____	_____	_____
✓ <i>Must match cylinder with setup</i>	_____	_____	_____	_____

Gas regulator	✓	_____	_____	_____
Tedlar bag	✓	_____	_____	_____
Datalogging software	_____	_____	_____	_____
Communications cable	_____	_____	_____	_____

Prepared by: D.W.
 QC checked by: _____
 Date: _____

This packing list is to ensure that every item needed to operate the unit was sent and received. Upon receiving a shipment, please fill out the "Received by customer" column. Call Pine within 24 hours of receiving the equipment if any pieces are missing, damaged, or malfunctioning. Thank you for choosing Pine Environmental Services LLC

Round 2

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services, Inc

Instrument ID 34211
Description Quest QC-10 Acoustic Calibrator
Calibrated 3/28/2018

Manufacturer	Quest	Classification	
Model Number	QC-10	Status	pass
Serial Number	QIL110149	Frequency	Yearly EOM
Location	New Jersey	Department	Lab
Temp	70	Humidity	23

Calibration Specifications:

Group # 1
Group Name Acoustic Tests Performed
Test Performed: Yes As Found Result: Fail As Left Result: Pass

Test Instruments Used During the Calibration

<u>Test Instrument ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>(As Of Cal Entry Date)</u>	
				<u>Last Cal Date</u>	<u>Next Cal Date</u>
B&K 4226	Brüel & Kjær 4226	Brüel & Kjær	2590968	4/24/2017	4/24/2018
B&K 4228	Brüel & Kjær 4228	Brüel & Kjær	2667476	4/5/2017	4/5/2018
SOUNDPRO DL-1-1/3	3M SoundPro DL-1-1/3	Quest Technologies	BLL070002	1/8/2018	1/8/2019

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Kevin Cole

Advanced Labs, Inc. hereby certifies that this instrument is calibrated and functions to meet the manufacture's specifications using NIST traceable standards, or is derived from accepted values of physical constants.

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 14395
Description Photovac Micro FID
Calibrated 3/28/2018 2:00:13PM

Manufacturer Photovac	State Certified
Model Number Micro FID	Status Pass
Serial Number/ Lot Number CZNK310	Temp °C 22.3
Location New Jersey	Humidity % 20
Department	

Calibration Specifications

Group # 1
Group Name Methane
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.0

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.0 / 100.0	PPM	100.0	PPM	100.0	100.0	0.00%	Pass
500.0 / 500.0	PPM	500.0	PPM	500.0	500.0	0.00%	Pass
10000.0 / 10000.0	PPM	10000.0	PPM	10,000.0	10,000.0	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ CH4 100	CH4 100	Calgaz	CH4100	KAP-150A-100	3/5/2018	3/5/2019
NJ CH4 10000PPM	100000 PPM Methane 34 Liter	Gasco	31771	KAP-150A-100-7 BBI-150A-100 00-5		1/22/2022
NJ CH4 500	METHANE (CH4) 500 PPM 34 LITERS	Liquid Technology	GP 12029	BBH-150A-500	6/15/2017	1/27/2021

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Robert Poe



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 29246
Description ToxiRAE Pro
Calibrated 3/29/2018 4:24:53PM

Manufacturer Rae Systems
Model Number PGM-1120
Serial Number/ Lot Number G024201CR5
Location New Jersey
Department

State Certified
Status Pass
Temp °C 23.9
Humidity % 34

Calibration Specifications

Group # 1
Group Name SO2
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.0

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
5.0 / 5.0	PPM	5.0	PPM	5.0	5.0	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Expiration Date</u>	<u>Opened Date</u>
NJ SO2 5PPM 1816911	5ppm SO2	Pine		1816911		

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Giovanni Cino

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance



INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 34669
Description QRAE III
Calibrated 3/30/2018 10:40:47AM

Manufacturer Rae Systems
Model Number PGM-2500
Serial Number/ Lot M02A014962
Number
Location New Jersey
Department

State Certified
Status Pass
Temp °C 21.7
Humidity % 38

Calibration Specifications

				Range Acc %			
Group # 1				3.0000			
Group Name Carbon Monoxide				Reading Acc %	0.0000		
Stated Accy Pct of Range				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50.00 / 50.00	PPM	50.00	PPM	50.00	50.00	0.00%	Pass
Group # 2				Range Acc %	3.0000		
Group Name Hydrogen Sulfide				Reading Acc %	0.0000		
Stated Accy Pct of Range				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
10.00 / 10.00	PPM	10.00	PPM	10.00	10.00	0.00%	Pass
Group # 3				Range Acc %	3.0000		
Group Name Methane				Reading Acc %	0.0000		
Stated Accy Pct of Range				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50.00 / 50.00	%LEL	50.00	%LEL	50.00	50.00	0.00%	Pass
Group # 4				Range Acc %	3.0000		
Group Name Oxygen				Reading Acc %	0.0000		
Stated Accy Pct of Range				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
18.00 / 18.00	%Volume	18.00	%Volume	18.00	18.00	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Last Cal Date/ Expiration Date</u>
NJ 4 GAS 18%: BBH-413-18-14	4GAS 18% O2 (H2S 10, CO 50, LEL 50)	Pine	4 Gas NIX	BBH-413-18-1 4	1/27/2019 Opened Date



INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 6697
Description VRAE
Calibrated 3/29/2018 2:08:37PM

Manufacturer Rae Systems
Model Number PGM7800
Serial Number/ Lot 170-101040
Number
Location New Jersey
Department

State Certified
Status Pass
Temp °C 23.3
Humidity % 33

Calibration Specifications

Calibration Specifications							
Group # 1				Range Acc %	0.0000		
Group Name NO2				Reading Acc %	3.0000		
Stated Accy Pct of Reading				Plus/Minus	0.0		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
5.0 / 5.0	PPM	5.0	PPM	5.0	5.0	0.00%	Pass
Group # 2				Range Acc %	0.0000		
Group Name Hydrogen Sulfide				Reading Acc %	3.0000		
Stated Accy Pct of Reading				Plus/Minus	0		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
25 / 25	PPM	25	PPM	25	25	0.00%	Pass
Group # 3				Range Acc %	3.0000		
Group Name Methane %LEL				Reading Acc %	0.0000		
Stated Accy Pct of Range				Plus/Minus	0		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50 / 50	%LEL	50	%LEL	50	50	0.00%	Pass
Group # 4				Range Acc %	3.0000		
Group Name Oxygen				Reading Acc %	0.0000		
Stated Accy Pct of Range				Plus/Minus	0.0		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
20.9 / 20.9	%Volume	20.9	%Volume	20.9	20.9	0.00%	Pass
Group # 5				Range Acc %	0.0000		
Group Name NO				Reading Acc %	3.0000		
Stated Accy Pct of Reading				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
25.00 / 25.00		25.00	PPM	25.00	25.00	0.00%	Pass

ARIZONA INSTRUMENT LLC
3375 N. Delaware St., Chandler, AZ 85225
(800) 528-7411 • (602) 470-1414
www.azic.com • customerservice@azic.com



Certification of Instrument Calibration

Pine Environmental Services LLC
92 N. Main St, Bldg 20
Windsor, NJ 08561

RMA # 2535125

This is to certify that the Jerome X431 0002 Gold Film Mercury Analyzer, Serial Number 4339, with Sensor Number 16-4-28-X2AS, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual	Calibration Gas	Allowable Range
Incoming:	Level 1	0.102 mg/m ³ Hg	0.102 mg/m ³ Hg	0.097 - 0.107 mg/m ³ Hg
	RSD %	6.31		<5%
Outgoing:	Level 1	0.100 mg/m ³ Hg	0.101 mg/m ³ Hg	0.096 - 0.106 mg/m ³ Hg
	RSD %	0.91		<3%
	Level 2	mg/m ³ Hg	0.025 mg/m ³ Hg	0.020 - 0.030 mg/m ³ Hg
	SD			<0.005 mg/m ³ Hg
	Level 3	mg/m ³ Hg	0.010 mg/m ³ Hg	0.005 - 0.015 mg/m ³ Hg
	SD		<0.005 mg/m ³ Hg	

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 3.5%

Calibration Date: 23-Jan-2018

Recalibration Date: 22-Jan-2019

Temperature °F: 71.20

% Relative Humidity: 14.60

Cheryl Hradek

Approved By: _____

Date Approved: 23-Jan-2018

Title: Cheryl Hradek - Quality Control

Equipment Used:

Permeation Tube: 498-52570 NIST#: ISO13265.072958

Calibration Date: 03-Jul-2017 Calibration Date Due: 03-Jul-2018

DynaCalibrator: M-1997 NIST#: 17-2784

Calibration Date: 22-Aug-2017 Calibration Date Due: 23-Aug-2018

Mass Flow Controller A: 54883 NIST#: 166950

Calibration Date: 22-Jun-2017 Calibration Date Due: 22-Jun-2018

Digital Multimeter: 16070752 NIST#: 7003079

Calibration Date: 15-Nov-2017 Calibration Date Due: 15-Nov-2018

Flowmeter: 154482 NIST#: 170503154482 000

Calibration Date: 03-May-2017 Calibration Date Due: 03-May-2018

Calibration Procedure Used: 730-0041



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 7562
Description Jerome 431-X
Calibrated 3/22/2018 5:47:49PM

Manufacturer Arizona	State Certified
Model Number 431-X	Status Pass
Serial Number/ Lot Number 4339	Temp °C 21.5
Location New Jersey	Humidity % 20
Department	

Calibration Specifications

Group # 1
Group Name Regen, Zero, and Mercury Analyzer Test
Test Performed: Yes **As Found Result:** Pass **As Left Result:** Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Expiration Date</u>
-------------------------	--------------------	---------------------	---------------------	-----------------------------------	--

Last Cal Date/ Opened Date

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Daniel Teller

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

Round 3

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 1281
Description Photovac MicroFID
Calibrated 7/19/2018 3:39:54PM

Manufacturer Photovac	State Certified
Model Number MicroFID	Status Pass
Serial Number/ Lot Number CZKE312	Temp °C 25
Location New Jersey	Humidity % 38
Department	

Calibration Specifications

Group # 1	Range Acc % 0.0000
Group Name Methane	Reading Acc % 3.0000
Stated Accy Pct of Reading	Plus/Minus 0.0

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
100.0 / 100.0	PPM	100.0	PPM	115.6	100.1	0.10%	Pass
10000.0 / 10000.0	PPM	10000.0	PPM	10,215.0	10,063.0	0.63%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ CH4 100 - BBI-150A-100-2	NJ CH4 100PPM	Gasco	31754	BBI-150A-100-2	5/17/2018	11/15/2018
NJ CH4 10000PPM BBI-150A-10000-5	10000 PPM Methane 34 Liter	Gasco	31771	BBI-150A-10000-5		1/22/2022
NJ ZEROAIR-HBH-1-21	NJ Zero Air 105 LITERS	Liquid Technology	GP12510	HBH-1-21		7/30/2018

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Timothy McCabe

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20

Windsor, NJ 08561

Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 1281

Description Photovac MicroFID

Calibrated 7/19/2018 3:39:54PM

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance**



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 7204
Description Jerome 431 Mercury meter
Calibrated 7/13/2018 3:58:17PM

Manufacturer Arizona	State Certified
Model Number 431-X	Status Pass
Serial Number/ Lot Number 4351	Temp °C 26.3
Location New Jersey	Humidity % 27
Department	

Calibration Specifications

Group # 1
Group Name Regen and Zero
Test Performed: Yes **As Found Result:** Pass **As Left Result:** Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Expiration Date</u>
					<u>Last Cal Date / Opened Date</u>

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Daniel Teller

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

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Please call 800-301-9663 for Technical Assistance

INSTRUMENT QC/ PACKING LIST

Description	Arizona Instruments Jerome 431-X
Instrument ID	7204
Date Prepared	7-13-18
Factory Cal. Date	6-22-18



Standard Items	Prepared	QC check	Received by customer	Returned to Pine
Jerome 431-X w/ hard case	X	✓	_____	_____
Manual	X	✓	_____	_____
Quick reference card	X	✓	_____	_____
Charging cord	X	✓	_____	_____
Probe	X	✓	_____	_____
Probe adapter/ fritware holder	X	✓	_____	_____
Zero air filter	X	✓	_____	_____
Spare fritware filters (2)	X	✓	_____	_____
Trimmer tool	X	✓	_____	_____
ProCal inspection report	_____	✓	_____	_____
Current factory calibration certificate	_____	✓	_____	_____
Optional Items				
Datalogger	_____	_____	_____	_____
Jerome JCI Comm. Software	_____	_____	_____	_____
Jerome comm. cable	_____	_____	_____	_____
USB software key	_____	_____	_____	_____
Serial to USB adapter	_____	_____	_____	_____

Prepared by: DA
 QC checked by: CG
 Date: 7-13-18

This packing list is to ensure that every item needed to operate the unit was sent and received. Upon receiving a shipment, please fill out the "Received by customer" column. Call Pine within 24 hours of receiving the equipment if any pieces are missing, damaged, or malfunctioning. Thank you for choosing Pine Environmental Services LLC.



ARIZONA INSTRUMENT

AMETEK ARIZONA INSTRUMENT
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Exclusive Manufacturer of Computrac® Moisture Analyzers
and Jerome® Mercury & Hydrogen Sulfide Analyzers

Certification of Instrument Calibration

Pine Environmental Services LLC
92 N. Main St. Bldg 20
Windsor, NJ 08561

RMA # 2580591

This is to certify that the Jerome X431 0002 Gold Film Mercury Analyzer, Serial Number 4351, with Sensor Number 17-11-2-T2AS, was calibrated with standard units traceable to NIST.

Calibration Status as Received: Out of Calibration

Table with 4 columns: Calibration Status, Actual, Calibration Gas, Allowable Range. Rows include Incoming and Outgoing data for Level 1, RSD %, Level 2, and Level 3 SD.

Calibration Status as Left: In Calibration

Estimated Uncertainty of Calibration System: 3.5%

Calibration Date: 22-Jun-2018 Recalibration Date: 21-Jun-2019

Temperature °F: 76.40 % Relative Humidity: 28.10

Handwritten signature: Cheryl Hradek

Approved By: Title: Cheryl Hradek - Quality Control

Date Approved: 27-Jun-2018

Equipment Used:

- Permeation Tube: 498-52570 NIST#: ISO13265: 072958
Calibration Date: 03-Jul-2017 Calibration Date Due: 03-Jul-2018
DynaCalibrator: M-1997 NIST#: 17-2784
Calibration Date: 22-Aug-2017 Calibration Date Due: 23-Aug-2018
Mass Flow Controller A: 83162 NIST#: 178915
Calibration Date: 22-Nov-2017 Calibration Date Due: 22-Nov-2018
Digital Multimeter: 16070752 NIST#: 7003079
Calibration Date: 15-Nov-2017 Calibration Date Due: 15-Nov-2018
Flowmeter: 01227 NIST#: 18042001227 000
Calibration Date: 20-Apr-2018 Calibration Date Due: 20-Apr-2019

Calibration Procedure Used: 730-0041

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID R266562
Description QRAE III
Calibrated 7/20/2018 11:56:45AM

Manufacturer Rae Systems	State Certified
Model Number PGM-2400	Status Pass
Serial Number/ Lot Number M02A004045	Temp °C 25.2
Location New Jersey	Humidity % 37
Department	

Calibration Specifications

				Range Acc %			
Group # 1				3.0000			
Group Name Carbon Monoxide				Reading Acc % 0.0000			
Stated Accy Pct of Range				Plus/Minus 0			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50 / 50	PPM	50	PPM	48	50	0.00%	Pass
Group # 2				3.0000			
Group Name Hydrogen Sulfide				Reading Acc % 0.0000			
Stated Accy Pct of Range				Plus/Minus 0.0			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
10.0 / 10.0	PPM	10.0	PPM	0.0	10.1	1.00%	Pass
Group # 3				3.0000			
Group Name Methane				Reading Acc % 0.0000			
Stated Accy Pct of Range				Plus/Minus 0			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
50 / 50	%LEL	50	%LEL	48	50	0.00%	Pass
Group # 4				3.0000			
Group Name Oxygen				Reading Acc % 0.0000			
Stated Accy Pct of Range				Plus/Minus 0.0			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
18.0 / 18.0	%Volume	18.0	%Volume	18.1	18.0	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>(As Of Cal Entry Date)</u>	
					<u>Last Cal Date/ Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ 4 GAS 18%: BBH-413-18-14	4GAS 18% O2 (H2S 10, CO 50, LEL 50)	Pine	4 Gas NIX	BBH-413-18-1 4		1/27/2019

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID R266562
Description QRAE III
Calibrated 7/20/2018 11:56:45AM

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Carlos Gavilanes

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

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INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 3705
Description RAE Systems VRAE
Calibrated 7/20/2018 12:56:32PM

Manufacturer Rae Systems	State Certified
Model Number PGM7800	Status Pass
Serial Number/ Lot Number 170-101208	Temp °C 25.6
Location New Jersey	Humidity % 38
Department	

Calibration Specifications

				Range Acc %				
Group # 1				3.0000				
Group Name Nitric Oxide (NO)				Reading Acc % 0.0000				
Stated Accy Pct of Range				Plus/Minus 0				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
25 / 25	PPM	25	PPM	23	25	0.00%	Pass	
Group # 2				3.0000				
Group Name Nitrogen Dioxide (NO2)				Reading Acc % 0.0000				
Stated Accy Pct of Range				Plus/Minus 0.0				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
5.0 / 5.0	PPM	5.0	PPM	7.6	5.1	2.00%	Pass	
Group # 3				3.0000				
Group Name Carbon Monoxide				Reading Acc % 0.0000				
Stated Accy Pct of Range				Plus/Minus 0				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
50 / 50	PPM	50	PPM	47	49	-2.00%	Pass	
Group # 4				3.0000				
Group Name Methane (%LEL)				Reading Acc % 0.0000				
Stated Accy Pct of Range				Plus/Minus 0				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
50 / 50	%LEL	50	%LEL	0	49	-2.00%	Pass	
Group # 5				3.0000				
Group Name Oxygen				Reading Acc % 0.0000				
Stated Accy Pct of Range				Plus/Minus 0.0				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
20.9 / 20.9	%Volume	20.9	%Volume	21.6	20.9	0.00%	Pass	

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 3705

Description RAE Systems VRAE

Calibrated 7/20/2018 12:56:32PM

<u>Test Instruments Used During the Calibration</u>				<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Next Cal Date / Last Cal Date/ Expiration Date Opened Date</u>
NJ 4 GAS 20.9% O2: BBI-412-12	4GAS 20.9% O2, 25H2S, 50CO, 50LEL	Pine Environmental Services, Inc.	4 GAS MIX 20.9%	BBI-412-12	1/22/2020
NJ NITROGEN DBI-114-30	Nitrogen 99.999% 105 Liters	Pine Environmental Services, Inc.	31821 105L-114	DBI-114-30	4/6/2022
NJ NO2 : 10102-44-0	NJ NO2 5ppm	Pine Environmental Services, Inc.	GP12365	10102-44-0	1/1/2019
NO 25 PPM NJ 678130	NO 25 ppm	Calgaz		678130	8/1/2018

Notes about this calibration

Calibration Result Calibration Successful

Who Calibrated Thomas Hutzly

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment

Please call 800-301-9663 for Technical Assistance

INSTRUMENT CALIBRATION REPORT



Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 42487
Description RKI GX 6000
Calibrated 7/20/2018 1:43:27PM

Group # 6				Range Acc % 0.0000			
Group Name Sulfur Dioxide (SO2)				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
5.00 / 5.00	PPM	5.00	PPM	5.00	5.00	0.00%	Pass

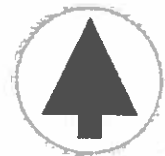
<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date/ Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ 4 GAS O2 12% - BBH-409-1	NJ 4 Gas O2 12%	Pine	31522	BBH-409-1		1/27/2019
NJ ISO 100PPM: EBI-248-100-5	100 PPM ISO	Pine Environmental Services, Inc.	31562-105L-248-100	EBI-248-100-5		4/6/2022
NJ SO2 5PPM 665387	Sulfur Dioxide 5 PPM	Calgaz	31835	665387		1/27/2019
NJ ZEROAIR-HBH -1-21	NJ Zero Air 105 LITERS	Liquid Technology	GP12510	HBH-1-21		7/30/2018

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Timothy McCabe

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance**



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 42487
Description RKI GX 6000
Calibrated 7/20/2018 1:43:27PM

Manufacturer	RKI	State Certified	
Model Number	GX-6000	Status	Pass
Serial Number/ Lot Number	52H0104501-4RN	Temp °C	24
Location	New Jersey	Humidity %	43
Department			

Calibration Specifications

				Range Acc %				
Group # 1				0.0000				
Group Name Methane (CH4)				Reading Acc %				
Stated Accy Pct of Reading				Plus/Minus				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
50 / 50	%LEL	50	%LEL	51	50	0.00%	Pass	
Group # 2				Range Acc %				
Group Name Oxygen (O2)				Reading Acc %				
Stated Accy Pct of Reading				Plus/Minus				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
12.0 / 12.0	PPM	12.0	PPM	12.1	11.9	-0.83%	Pass	
Group # 3				Range Acc %				
Group Name Hydrogen Sulfide (H2S)				Reading Acc %				
Stated Accy Pct of Reading				Plus/Minus				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
25.0 / 25.0	PPM	25.0	PPM	25.0	25.0	0.00%	Pass	
Group # 4				Range Acc %				
Group Name Carbon Monoxide (CO)				Reading Acc %				
Stated Accy Pct of Reading				Plus/Minus				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
50 / 50	PPM	50	PPM	51	50	0.00%	Pass	
Group # 5				Range Acc %				
Group Name Isobutylene (VOC)				Reading Acc %				
Stated Accy Pct of Reading				Plus/Minus				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
100.0 / 100.0	PPM	100.0	PPM	100.0	99.0	-1.00%	Pass	
Group # 6				Range Acc %				
Group Name Sulfur Dioxide (SO2)				Reading Acc %				

Appendix E: Site Photos

Site Photos:



Figure 1: Equipment Rented from Pine

Date & Time Taken: 10/31/17 9:58 AM



Figure 2: Photovac microFid in the Process of Calibration

Date & Time Taken: 10/31/17 1:54 PM



Figure 3: Field Engineer Setting Up Weather Station and Telemetry Set-Up for Location 2



Figure 4: Field Engineer Recording Air Quality Data by Taking a Picture



Figure 5: Telemetry Set Up and Weather Station in Location 6, Powered by a Marine Battery

Date & Time Taken: 11/14/17 11:14 AM



Figure 6: Field Engineer & Licensed Water Operator Collecting Water Samples

Date & Time Taken: 04/09/18 12:21 PM



Figure 7: ToxiRae Recording SO₂ in Location 1

Date & Time Taken: 04/09/18 11:13 AM



Figure 8: Photovac microFid Recording CH₄ in Location 6

Date & Time Taken: 04/12/18 3:48 PM



IMG_3242

Figure 9: Jerome 431-X Recording Mercury Vapor in Location 1

Date & Time Taken: 07/23/18 1:18 PM



Figure 10: VRAE Collecting Air Samples in Location 4