



**ORANGE COUNTY LANDFILL
NYS ROUTE 17M, TOWN OF GOSHEN, NEW YORK
NYSDEC SITE NO. 336007**

**GROUNDWATER RECOVERY SYSTEM
PILOT PROGRAM WORK PLAN**

Prepared for:

Orange County Department of Public Works
Division of Environmental Facilities and Services
2455-2459 Route 17M, P.O. Box 637
Town of Goshen, New York 10924

Prepared by:

Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

July 9, 2020



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**ORANGE COUNTY LANDFILL
NYS ROUTE 17M, TOWN OF GOSHEN, NEW YORK
NYSDEC SITE NO. 336007**

**HORIZONTAL GROUNDWATER RECOVERY SYSTEM
PILOT PROGRAM WORK PLAN**

Table of Contents

	<u>Page #</u>
1.0 INTRODUCTION	1
1.1 Site Description, Setting and Background	1
1.2 Groundwater Recovery Well Pilot Study	1
1.3 Seep Monitoring Data	2
2.0 IMPLEMENTATION OF SEEP MITIGATION REMEDY	2
2.1 Seep Mitigation Plan.....	2
2.1.1 Impacted Soil/Sediment Removal.....	2
2.1.2 Canal Bank Erosion Control	3
2.1.3 Groundwater Collection and Treatment.....	3
3.0 GROUNDWATER RECOVERY SYSTEM PILOT PROGRAM	4
3.1 Recovery Well Pumping Rate Test.....	4
3.2 Water Sampling, Characterization, and Management	5
3.3 Sensor Control	6
4.0 SCHEDULE.....	6

Figures

Figure 1	Site Location Map
Figure 2	Site Vicinity and Property Features Map
Figure 3	Groundwater Recovery System Plan View
Figure 4	Horizontal Recovery Well Profile and Section

Appendices

Appendix A	Groundwater Recovery Well Pilot Study Summary Report
Appendix B	Orange County Groundwater and Surface Water Monitoring Data

1.0 INTRODUCTION

This Work Plan describes procedures to implement a Pilot Program for the groundwater recovery system installed at the Orange County Landfill (Landfill) for the remediation of previously identified and characterized Landfill-impacted groundwater seeps along the Cheechunk Canal located in the Town of Goshen, Orange County, New York (Figure 1). The objective of the Pilot Program is to initiate system startup, establish a long-term pumping rate, review operational scenarios, and determine treatment/disposal methods.

1.1 Site Description, Setting and Background

The Landfill footprint totals approximately 75 acres and is located approximately 3 miles west of the Village of Goshen, south of NYS Route 17M. The property is bound by the Cheechunk Canal to the southeast and by the old channel of the Wallkill River to the northwest and southwest. Site features are presented on the aerial photograph provided as Figure 2.

Investigations of the Landfill seeps are detailed in a Landfill Seep Evaluation Report, dated April 4, 2014, a Long-Term Seep Evaluation Report dated December 3, 2014, and a Groundwater Recovery Well Pilot Study Summary Report, dated September 14, 2017. In addition, annual Post-Closure Monitoring Reports and Periodic Review Reports were reviewed to establish a conceptual model of the Landfill seeps.

The New York State Department of Environmental Conservation (NYSDEC) and Orange County (the County) entered into an Order on Consent and Administrative Settlement Index No: A3-0829-14-05 requiring completion of the Long-Term Seep Elimination Feasibility Study (FS) and preparation and implementation of the Remedial Action Work Plan (RAWP). Remedial action objectives developed for the site reflect results of the comprehensive site investigations and applicable regulatory requirements and guidance. The remediation goals for the identified seeps are to eliminate exposures to surface or subsurface soils and groundwater that contain elevated levels of landfill-derived contaminants and restrict migration of contaminants to the environment.

The Remedial Design (RD) includes:

- Excavation and removal of visibly stained, impacted soil at the seeps (completed 10/2019)
- Armoring and erosion control of excavated areas at identified seeps (completed 10/2019)
- Upgradient groundwater withdrawal to eliminate the seeps (subject of this Work Plan)
- Treatment of collected groundwater (subject of this Work Plan)

The physical characterization, nature and extent of contamination, and contaminant fate and transport have been extensively studied at the unlined Landfill since the early 1980s. The distribution and character of geologic materials, occurrence of groundwater, and overall water quality has been well documented since 1987. The geologic, hydrogeologic, and environmental setting is described in the Cheechunk Canal/Landfill Seep Evaluation Letter Report, dated April 4, 2014 and the Long Term Seep Evaluation Report, dated December 3, 2014.

1.2 Groundwater Recovery Well Pilot Study

In June 2017, a groundwater recovery well pilot study was performed to evaluate hydrogeologic conditions occurring at the seep locations. Soil and groundwater conditions were recorded during field activities to evaluate potential dewatering impediments. One 6-inch inside diameter (I.D.) pumping well (RW-17-1) and two 1¼-inch I.D. observation wells (PZ-17-1 and PZ-17-2) were installed at a location within the

vicinity of the future groundwater collection system. Geologic and hydrogeologic information was recorded as each boring/piezometer/recovery well was advanced into a glaciolacustrine sand unit. After completion, the piezometers and recovery well were developed to ensure proper communication with water-bearing zones of the glaciolacustrine sand unit. The recovery well was screened from the top of the potentiometric surface to allow simultaneous pumping of all water-bearing units during the pilot study. Groundwater elevation data were collected for groundwater recovery system design.

The pumping test analysis demonstrated that the glaciolacustrine sand water-bearing unit is low transmissivity with similar hydrogeologic properties as summarized in the Long Term Seep Evaluation Report dated December 3, 2014. The recovery well sustained a pumping rate of 0.5 gpm during the pilot test and produced a drawdown of approximately 1 foot at a distance of 10 feet from the recovery well. The maximum spacing between additional pumping wells was determined to be approximately 10 feet (or less), resulting in the need for approximately 15 to 20 recovery wells with associated pumps, piping, and controls to effectively control groundwater upgradient of the seeps.

Based on the recovery well pilot test, use of horizontal directional drilling (HDD) was recommended to install a horizontal recovery well to achieve seep mitigation objectives. Additional details pertaining to this study can be found in Appendix A, Groundwater Recovery Well Pilot Study Summary Report.

1.3 Seep Monitoring Data

Local groundwater and surface water elevations have been monitored by representatives for the County regularly dating back to April 2015. Surface water elevations recorded by the County have been measured using a staff gauge installed within the canal along with visual observations and photo-documentation of conditions when the seeps were exposed or covered. Groundwater elevation data have been recorded from nine monitoring locations directly upgradient of the Landfill seeps. Associated groundwater elevations have been calculated from measurements at piezometers (PZ-14-1, PZ-14-2, PZ-14-3, PZ-14-4, PZ-14-5, PZ-14-6, PZ-4), monitoring well MW-3B, and manhole MH-5. Records pertaining to the surface water and groundwater gauging is available in Appendix B. The canal water elevation has been monitored during seep remediation activities using a sub-inch Trimble GPS unit. Surface water monitoring directly at seep location, indicates the seep elevation ranges from 355 to 360 feet AMSL. According to the records provided by the County in Appendix B, the seeps have been exposed less than 30% of the year.

2.0 IMPLEMENTATION OF SEEP MITIGATION REMEDY

2.1 Seep Mitigation Plan

The mitigation remedy consists of removal of impacted soils, canal bank erosion control, focused groundwater collection, and groundwater treatment.

2.1.1 Impacted Soil/Sediment Removal

Visibly stained soil in the immediate vicinity of the seeps impacted by Landfill-related chemistry was excavated from the northern canal bank in October 2019. The discrete areas identified for soil excavation are presented on Figure 3. Stained soil and sediments were excavated with an excavator that loaded material into super sacks for transport into a lined roll-off box by a crane located on the uphill access road. Approximately 12.2 tons of excavated material was staged in roll-off containers for waste characterization sampling. Following waste characterization, the soil was disposed of at a permitted facility.

2.1.2 Canal Bank Erosion Control

Following excavation of visibly stained soil, the excavated areas were stabilized with nonwoven geotextile fabric and at least 24 inches of medium stone fill as shown on Figure 3. Approximately 120 cubic yards of stone fill was required to effectively cover the excavated areas.

2.1.3 Groundwater Collection and Treatment

Groundwater collection will be accomplished by a horizontal groundwater recovery well installed parallel to the canal and directly upgradient of the seep location.

The horizontal well is designed to depress the groundwater table to decrease the hydraulic gradient in the direction of the canal to effectively halt the flow of groundwater causing the seeps. The horizontal well is located upgradient of the seeps, outside of the flood zone of the canal.

The groundwater collection system consists of a 320-foot long, 4-inch diameter recovery well with top-mounted piston-style extraction pump to depress the water table upgradient of the seeps. Installation and development of the HDD occurred in October 2019. The well extends horizontally 320 feet to the northeast from the point of entry parallel to the canal. Schedule 40 riser pipe enters the ground surface at approximately a 20-degree angle with approximately 110 feet of solid riser pipe that gradually levels off to horizontal at a depth of approximately 32.0 feet below grade. The horizontal portion of the well consists of approximately 210 feet of No. 10 slotted well screen set within the upper portion of the glaciolacustrine fine sand formation, just below the elevation of the exposed seeps. Details specific to the horizontal recovery well are provided in Figure 4.

The pump controller is capable of variable frequency to adjust the pump flow rate to achieve the target groundwater drawdown. To improve efficiency of the groundwater collection system, the system will also be controlled by a binary (on/off) pressure sensor that is activated by the water level elevation in the canal. The pump will be on when the canal level is at an elevation below the seeps causing a hydraulic gradient towards the canal. The pump will be off when the canal level is at an elevation above the seeps causing a hydraulic gradient away from the canal. The sensor will be installed directly in the canal adjacent to the pump control panel. The purpose of the canal sensor is to only pump water when the hydraulic gradient is towards the canal.

Additional instrumentation will be evaluated during the pilot program to optimize system performance. A high level shutoff will be installed in the holding tank to turn off the pump when the tank reaches 90% of its capacity. A groundwater elevation sensor will be evaluated for installation in a piezometer adjacent to the horizontal well to serve as a low level shutoff. The groundwater elevation sensor will monitor groundwater depression and shut off the pump when groundwater is lowered below the lowest seep elevation. The purpose of the low level shutoff is to prevent over-extraction of groundwater that will require management. Sensor selection, installation, and integration with the control panel will be coordinated during the pilot program with the system vendors.

Recovered groundwater during the pilot program will be conveyed to a 20,000 gallon mobile holding tank located along the Landfill perimeter road for characterization to evaluate a sustainable long-term management option such as an onsite constructed wetland or connection to municipal sewer. Recovered water during the pilot program will be transported offsite for treatment and disposal.

3.0 GROUNDWATER RECOVERY SYSTEM PILOT PROGRAM

The objective of the groundwater recovery pilot program is to perform system startup and optimization for long-term operation. The program will collect data to select an appropriate pumping rate, assess the influence from pumping at the selected rate, establish automated controls, and determine an appropriate long-term wastewater management plan.

The tasks for the pilot program include:

- Connection of electric and piston pump to the horizontal well
- Connection of wastewater piping to the holding tank
- Pump startup and troubleshooting
- Groundwater drawdown monitoring
- Determination of long-term pump flow rate
- Determination of drawdown duration
- Characterization of collected groundwater
- Installation and testing of sensor controls
- Evaluation of long term groundwater management options.

3.1 Recovery Well Pumping Rate Test

The first phase of the pilot program is to perform initial startup of the pump and monitor the groundwater drawdown response to establish a long-term pump flow rate. The first phase will consist of the following tasks:

1. Installation of the pump vault, electrical control panel, and associated plumbing components.
2. Connection of electric service to the pump control panel.
3. Installation of a staff gauge to monitor the canal water surface elevation.
4. Baseline groundwater elevation monitoring in piezometers PZ-14-1, PZ-14-2, PZ-14-3, PZ-14-4, PZ-14-5, PZ-14-6, PZ-17-1, and PZ-17-2 (see Figure 3).
5. Startup of groundwater recovery pump.
6. Groundwater elevation response monitoring in piezometers.

Based on the 2017 aquifer pumping tests, an initial pumping rate of 0.5 gpm will be targeted (approximately 720 gpd). The extraction pump will run constantly until the holding tank has been filled. At a constant pumping rate of 0.5 gpm, the holding tank should be filled within approximately 28 days. During this filling period, drawdown will be monitored in the surrounding piezometers to monitor the aquifer response. This phase will commence when the canal elevation is below the seep elevation to represent the target operational condition for controlling groundwater causing the seeps. The piezometers will be monitored according to the following schedule:

1. Baseline: Before pump startup and canal elevation below seep elevation.
2. Pumping: Hourly for first 8 hours and then daily until target drawdown is achieved or stabilization occurs. A datalogger will be installed in PZ-14-3 to record real-time drawdown response throughout the pilot program.

Adjustment of the pumping rate may be necessary based on drawdown monitoring. If drawdown stabilizes above the target seep elevation, the pumping rate will be gradually increased and daily monitoring will continue. Once the target drawdown is achieved, pumping will continue until the holding tank is filled.

3.2 Water Sampling, Characterization, and Management

Extracted groundwater will be pumped and stored in a 20,000 gallon temporary holding tank located along the Landfill perimeter road. Upon startup of the recovery system, three samples will be collected and analyzed for characterization when the holding tank becomes approximately halfway filled with extracted groundwater. Samples will be placed on ice and transported to Alpha Analytical Labs in Westborough, MA where they will be analyzed for the following characterization parameters:

- Total Hardness
- Turbidity*
- Apparent Color
- Total Alkalinity
- Specific Conductance @ 25°C*
- Total Dissolved Solids
- Total Cyanide
- pH (H)*
- Nitrogen, Ammonia
- Nitrogen, Nitrite
- Nitrogen, Total Kjeldahl
- Dissolved Oxygen*
- Chemical Oxygen Demand
- BOD, 5 day
- Total Organic Carbon
- Total Phenolics
- Hexavalent Chromium
- Oxidation/Reduction Potential*
- Bromide
- Chloride
- Sulfate

*Indicates parameter monitored in the field during sampling

Characterization data will be used to support long-term management of recovered groundwater, including the following:

- An onsite constructed wetland for treatment recharge.
- An onsite constructed wetland for treatment recharge to allow discharge to the canal through a SPDES permitted outfall.
- Connection to Psychiatric Center Wastewater Treatment Plant.
- Connection to municipal sewer for offsite treatment.

3.3 Sensor Control

The groundwater recovery system will ultimately be equipped with sensor controls to automate startup and shutdown based on specific operational conditions. Primary on/off control will be through a pressure sensor that shuts down the system when the canal surface water level rises above the elevation of the Landfill seeps. The sensor will be installed directly in the canal adjacent to the pump control panel. A qualified vendor will be retained to support sensor installation, programming, and startup. Ultimately, the groundwater recovery system will be configured to allow remote viewing of the operational status and remote system control.

The canal pressure sensor will be calibrated to send a shutoff signal to the pump control panel when the canal water elevation is above the seeps. The sensor will send a startup signal to the pump control panel when the canal water elevation recedes below the seeps. To achieve this, surface water elevation measurements will be collected using a sub-inch GPS to determine the sensor pressure readings that correlate to the seep elevations. To the extent that any trenching or anchoring is necessary to install the canal pressure sensor, the activities are covered under Nationwide Permit No. 5 for scientific measurement devices.

Additional instrumentation will be evaluated during the pilot program to optimize system performance. A high level shutoff will be installed in the holding tank to turn off the pump when the tank reaches 90% of its capacity. A groundwater elevation sensor will be evaluated for installation in a piezometer adjacent to the horizontal well to serve as a low level shutoff. The groundwater elevation sensor will monitor groundwater depression and shut off the pump when groundwater is lowered below the lowest seep elevation. The purpose of the low level shutoff is to prevent over-extraction of groundwater that will require management.

4.0 SCHEDULE

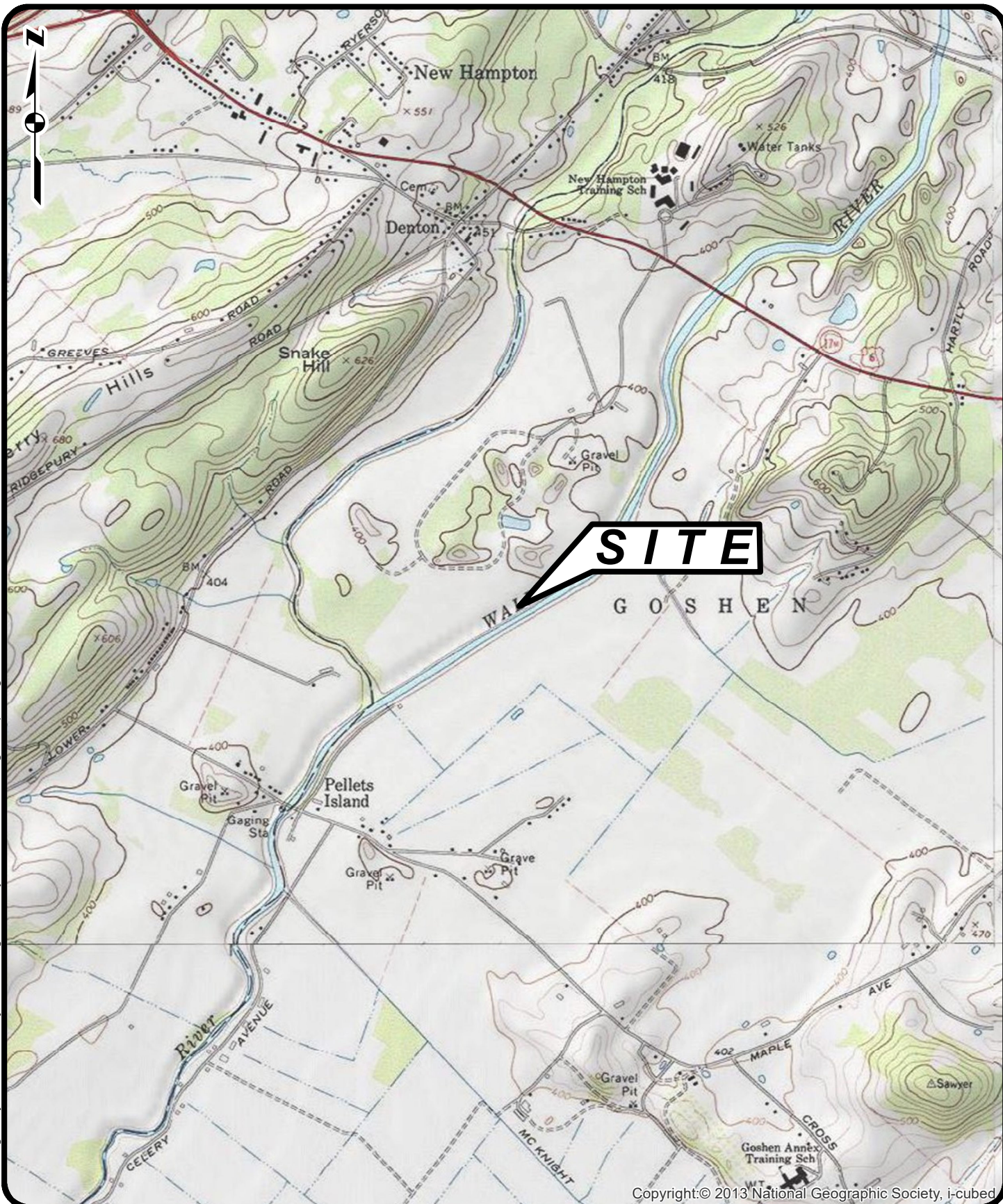
The pilot program will begin following installation of the pump and controls. The following durations are anticipated:

Phase	Estimated Duration
Recovery Well Pumping Rate Test	Up to 4 Weeks
Remote Sensor Installation	1 Week
Data Evaluation and Completion of the Long-Term Groundwater Management Plan	3 Months

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FIGURES

S:\Sterling\Projects\Orange County - 2010-15\Drawings-Maps-Figures\GIS\2010-15001G- FIG 1 SITE LOC MAP.mxd



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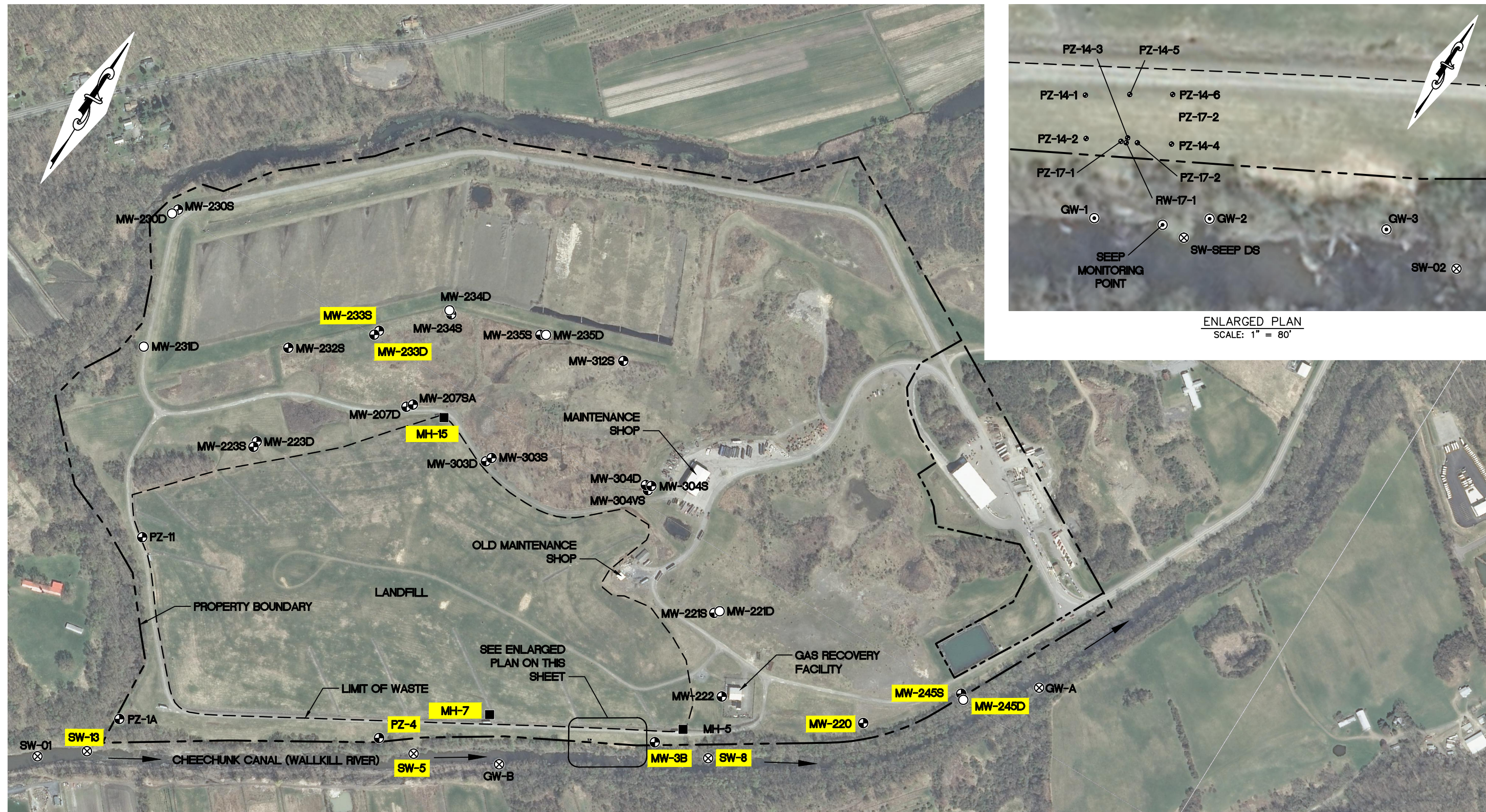
STERLING

Sterling Environmental Engineering, P.C.
24 Wade Road • Latham, New York 12110

SITE LOCATION MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL
TOWN OF GOSHEN
ORANGE CO., NY

PROJ.NO. 2010-15 | DATE: 5/19/2020 | SCALE: 1" = 2,000' | DWG.NO. 2015-1001G | FIGURE 1

S:\Drawings\2010-15 - Orange County\2010-15073_F-2 - Site Vicinity Map.dwg SWEET 9/7/2017 4:14 PM



LEGEND:

- | | |
|-----------|---|
| ● MW-245S | OVERBURDEN MONITORING WELL AND PIEZOMETER LOCATION |
| ○ MW-245D | BEDROCK MONITORING WELL LOCATION |
| ■ MH-7 | LEACHATE SAMPLING LOCATION |
| ⊙ GW-1 | SEEP MONITORING LOCATION |
| ⊗ SW-5 | SURFACE WATER SAMPLE LOCATION |
| ● MW-245S | AS PER 2014 SMP, SAMPLED FOR CHARACTERIZATION OF GROUNDWATER, SURFACE WATER OR LEACHATE QUALITY |
| --- | LIMIT OF WASTE |
| --- | PROPERTY BOUNDARY |



(IN FEET)
1 inch = 500 ft.

MAP REFERENCES:

1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.
2. AERIAL PHOTOGRAPHY FROM NEW YORK STATWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013.

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Sterling Environmental Engineering, P.C.

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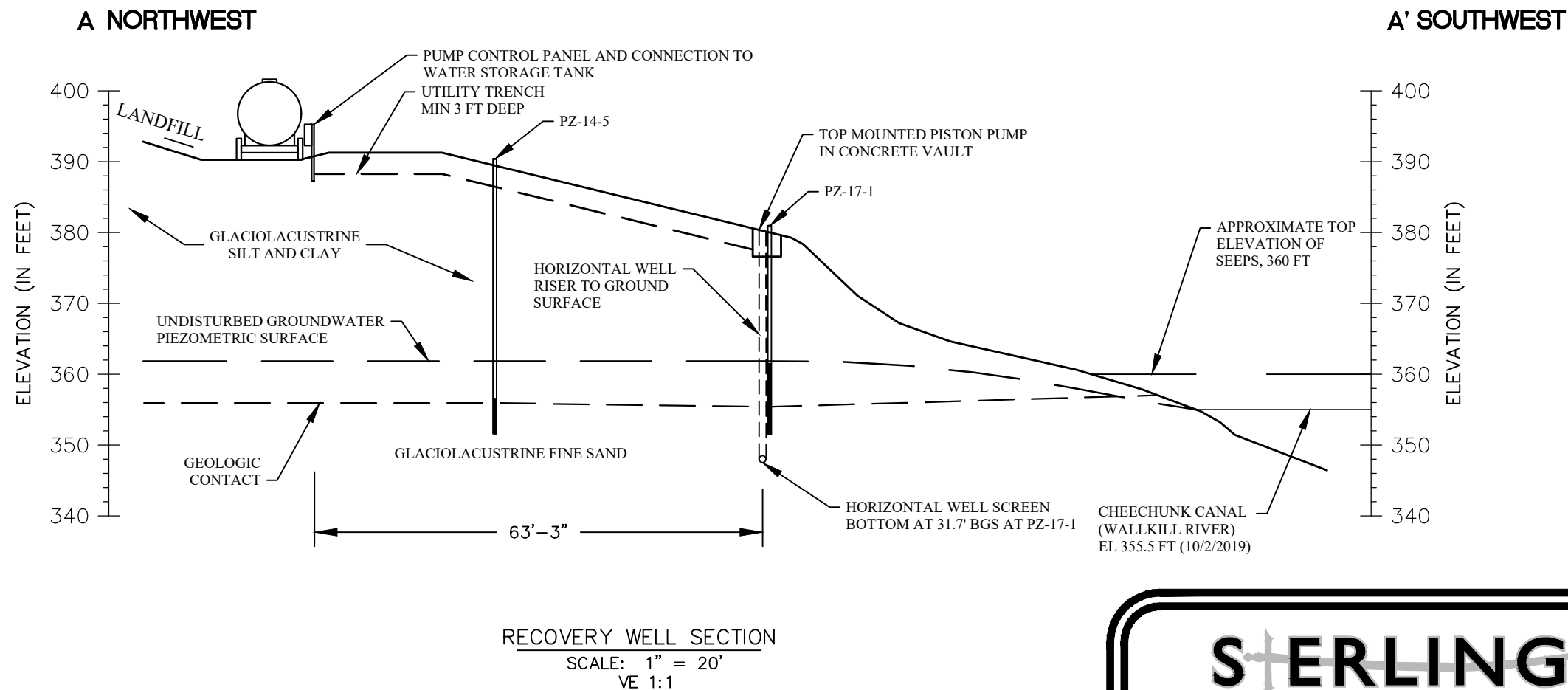
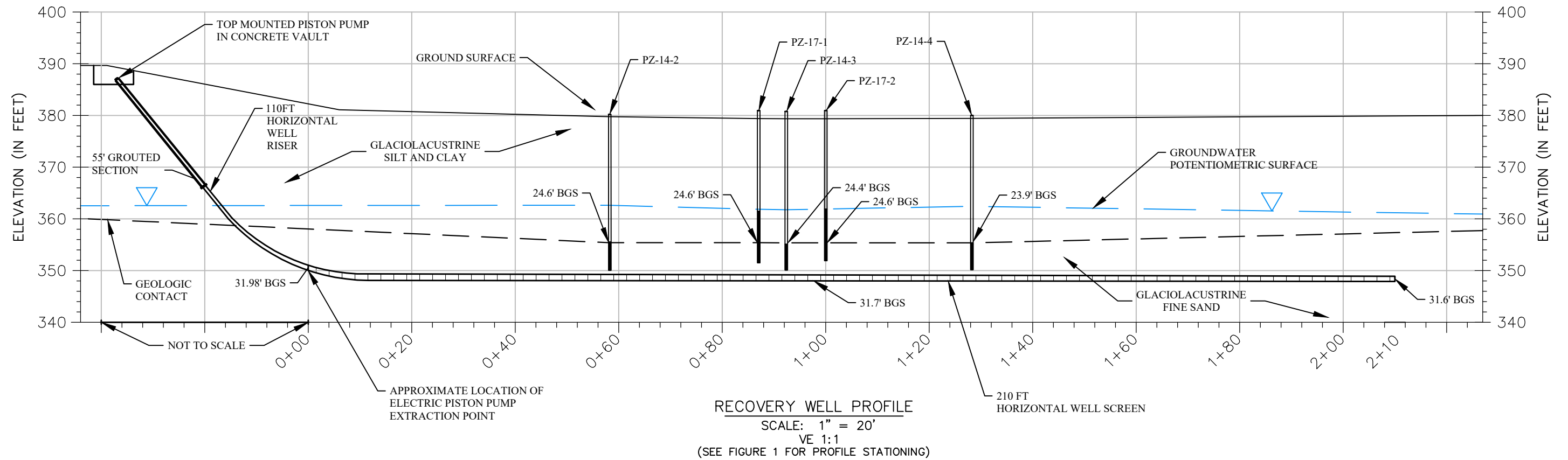
SITE VICINITY AND
PROPERTY FEATURES MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN

ORANGE CO., N.Y.

PROJ. No.: 2010-15 | DATE: 09/07/17 | SCALE: 1"=500' | DWG. NO. 2010-15073 | FIGURE 2

S:\Sterling\Projects\2010 Projects\Orange County - 2010-15\Drawings-Maps-Figures\ACAD\2010-15093_F-4 - Horizontal Recovery Well Section_AS_BUILT.dwg CAD 5/19/2020 10:34 AM



SURVEY REFERENCE:
1. WATER LEVEL AND SEEP ELEVATIONS COLLECTED WITH TRIMBLE RTK GPS AND REPORTED IN NAD83 VERTICAL DATUM.

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HORIZONTAL RECOVERY WELL
PROFILE AND SECTION
ORANGE COUNTY DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN ORANGE CO., NEW YORK

PROJ. No.: 2010-15 | DATE: 5/19/2020 | SCALE: AS NOTED | DWG. NO. 2010-15093 | FIGURE 4

APPENDIX A

GROUNDWATER RECOVERY WELL PILOT STUDY SUMMARY REPORT



**ORANGE COUNTY LANDFILL
NYS ROUTE 17M, TOWN OF GOSHEN, NEW YORK
NYSDEC SITE NO. 336007**

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Prepared for:

Orange County Department of Public Works
Division of Environmental Facilities and Services
2455-2459 Route 17M, P.O. Box 637
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Prepared by:

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September 14, 2017

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GROUNDWATER RECOVERY WELL PILOT STUDY SUMMARY REPORT

Table of Contents

	<u>Page #</u>
EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	2
1.1 Site Description, Setting and Background	2
2.0 GROUNDWATER RECOVERY SYSTEM PILOT TEST	2
2.1 Additional Overburden Piezometer Installation	3
2.2 Recovery Well Installation (Pilot Study)	4
2.3 Well Development	4
2.4 Pumping Test Program	4
2.5 Waste Management	5
3.0 PILOT TEST RESULTS	6
3.1 Background Monitoring	6
3.2 Individual Recovery Well Pumping Test	6
3.2.1 Test Duration	7
3.2.2 Recovery	7
3.2.3 Water Quality Results	7
3.2.3.1 Field Parameters	7
3.2.3.1 Leachate Indicator Parameters	8
3.2.4 Hydrogeologic Analysis	8
3.2.5 Waste Management	8
4.0 RECOMMENDATIONS	9

Figures

Figure 1	Site Location Map
Figure 2	Site Vicinity and Property Features Map
Figure 3	Seep Area, Recovery Well and Piezometer Location Map

Tables

Table 1	Summary of Borings and Piezometer/Well Information
Table 2	Summary of Groundwater Analytical Results (RW-17-1 Pumping Test) - June 15, 2017
Table 3	Summary of Analytical Results (Disposal Characterization) - Soil Cuttings

Appendices

Appendix A	Boring Logs and Well Construction Forms
Appendix B	Staff Gauge and Monitoring Well Measurement Data
Appendix C	Background Monitoring Data
Appendix D	Pumping Test Data
Appendix E	Recovery Monitoring Data
Appendix F	Analytical Report - Groundwater
Appendix G	Analytical Report - Soil Cuttings
Appendix H	Conceptual Plan - HDD Groundwater Recovery System

EXECUTIVE SUMMARY

This report summarizes the pilot study for the groundwater recovery system in the vicinity of Landfill-impacted groundwater seeps (Project Area) along the Cheechunk Canal (referred to as “Project Area”) near the Orange County Landfill Site (Landfill) located in the Town of Goshen, Orange County, New York. The pilot study was implemented to assess the optimal long-term pumping rate and refine operational scenarios to withdraw upgradient groundwater and eliminate the seeps at the Landfill.

Following installation and development of the 6-inch diameter recovery well (RW-17-1), a pilot study was performed on June 15, 2017 and consisted of pumping RW-17-1 while monitoring groundwater levels in the recovery well and adjacent piezometers. These data were evaluated to obtain shallow aquifer information for dewatering design at the Project Area.

Sterling Environmental Engineering, P.C. (STERLING) completed a constant rate well pumping test for RW-17-1 on June 15, 2017. All pumped water was containerized in a storage tank and managed in accordance with protocols established in the New York State Department of Environmental Conservation (NYSDEC) -approved Remedial Action Work Plan (RAWP). The pumping rate was initiated at three (3) gallons per minute (gpm) and the water level in RW-17-1 dewatered quickly, with almost 10.2 feet of drawdown within seven (7) minutes. The pumping rate at RW-17-1 was reduced to 0.5 gpm and maintained a constant pumping rate for nearly three (3) hours; the potentiometric surface decreased 3.23 feet during this period prior to cavitating at 33.67 feet below measuring point. The pumping continued at 0.5 gpm for an additional one (1) hour and 25 minutes with no additional drawdown at which point the pumping of RW-17-1 was terminated.

Observed drawdown at RW-17-1 was 13.53 feet while observed drawdown at the overburden piezometers ranged from (0.16 foot (PZ-14-5) to 0.86 foot (PZ-17-1)). No significant lag effects were observed within the overburden piezometers in the vicinity of the Project Area and water levels from the staff gauge in the Cheechunk Canal were not influenced from onsite pumping activities. The potentiometric surface in RW-17-1 recovered to within 60% of static over 24 minutes and over 98% of static 111.5 minutes after pumping. Water chemistry results for the beginning and end of pumping exhibited no exceedances of Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and were generally consistent, except for higher concentrations of Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), and ammonia at the end of pumping.

The pumping test analysis demonstrates that the glaciolacustrine sand water-bearing unit is low transmissive with similar hydrogeologic properties as summarized in STERLING’s Long Term Seep Evaluation Report (December 2014). The recovery well sustained a pumping rate of 0.5 gpm during the pilot test and produced a drawdown of approximately one (1) foot at a distance of 10 feet from the recovery well. The maximum spacing between additional pumping wells would be approximately 10 feet (or less), resulting in the need for a total of approximately 15 to 20 additional recovery wells with associated pumps, piping, and controls to effectively control groundwater upgradient of the seeps.

STERLING is therefore proposing the use of Horizontal Directional Drilling (HDD) and placement of a horizontal collection pipe to achieve remedial goals as opposed to installation of numerous recovery wells or costly deep trenching on a steel slope as it provides a greater surface area in contact with locally impacted soil or groundwater.

1.0 INTRODUCTION

This document presents an evaluation of the pilot study for the groundwater recovery system for the remediation of Landfill-impacted groundwater seeps along the Cheechunk Canal near the Orange County Landfill Site (Landfill) located in the Town of Goshen, Orange County, New York (Figure 1). The objective of the pilot study was to test the effectiveness of the selected remedy set forth in the Long-Term Seep Elimination Feasibility Study (FS), dated May 15, 2015, and execute Section 3.2.3 of the revised Remedial Action Work Plan (RAWP), dated December 19, 2016. The pilot study was also implemented to assess the optimal long-term pumping rate and refine operational scenarios to withdraw upgradient groundwater and eliminate the seeps at the Landfill.

1.1 Site Description, Setting and Background

The Landfill footprint totals approximately 75-acres and is located approximately three (3) miles west of the Village of Goshen, south of NYS Route 17M. The property is bound by the Cheechunk Canal to the southeast and by the old channel of the Wallkill River to the northwest and southwest. The site location is presented on Figure 1. Property features are presented on the aerial photograph provided as Figure 2.

Investigations completed at the Landfill to date are detailed in the Landfill Seep Evaluation Report, dated April 4, 2014 and the Long-Term Seep Evaluation Report dated December 3, 2014. In addition, Post-Closure Monitoring Reports and Periodic Review Reports were utilized to complete a conceptual model of the Landfill site.

The NYSDEC and Orange County entered into an Order on Consent and Administrative Settlement Index No: A3-0829-14-05 requiring completion of the Long-Term Seep Elimination FS and preparation and implementation of the RAWP. Remedial action objectives developed for the site reflect results of the comprehensive site investigations and applicable regulatory requirements and guidance. The remediation goals for the identified seeps are to eliminate exposures to surface or subsurface soils and groundwater that contain elevated levels of landfill-derived contaminants and restrict migration of contaminants to the environment.

The selected remedy consists of Alternative 4B as described in the FS and NYSDEC-approved RAWP (STERLING, 2016). This alternative consists of impacted soil removal, armoring area of seeps, seep elimination by groundwater collection using upgradient horizontal directional drill (HDD) recovery well, and treatment of the collected water.

The physical characterization, nature and extent of contamination, and contaminant fate and transport have been extensively studied at the unlined Landfill since the early 1980's. The distribution and character of geologic materials, occurrence of groundwater, and overall water quality has been well documented since 1987. The geologic, hydrogeologic, and environmental setting is described in the Cheechunk Canal/Landfill Seep Evaluation Letter Report (STERLING, April 4, 2014) and the Long Term Seep Evaluation Report (STERLING, December 3, 2014).

2.0 GROUNDWATER RECOVERY SYSTEM PILOT TEST

STERLING field personnel recorded soil and groundwater conditions during field activities to evaluate potential dewatering impediments. One 6-inch inside diameter (I.D.) pumping well (RW-17-1) and two (2) 1¼-inch I.D. observation wells (PZ-17-1 and PZ-17-2) were installed at a location within the vicinity of the future groundwater collection system. Geologic and hydrogeologic information was recorded as

each boring/piezometer/recovery well was advanced into the glaciolacustrine sand unit. After completion, the new piezometers and recovery well were developed to ensure proper communication with water-bearing zones of the glaciolacustrine sand unit. The recovery well was screened from the top of the potentiometric surface to allow simultaneous pumping of all water-bearing units during the pilot study pumping test. Groundwater elevation data was collected for groundwater collection design requirements.

Following installation of the recovery well, a pilot study was performed consisting of pumping the well while monitoring groundwater levels in the recovery well and adjacent piezometers. These data were evaluated to select an appropriate pumping rate, assess the radius of influence from pumping at the selected rate, and determine the effectiveness of using a recovery well(s).

The tasks for the pilot study included:

- Installation of two (2) additional overburden piezometers;
- Installation of “pilot” recovery well;
- Well development;
- Recovery well evaluation; and,
- Waste management.

2.1 Additional Overburden Piezometer Installation

On June 12 and 13, 2017, two (2) temporary piezometers (PZ-17-1 and PZ-17-2) were installed between the Landfill’s perimeter access road and the seeps near the Cheechunk Canal bank to better understand the subsurface hydrogeology between the limits of waste and the seeps (Figures 3 and 4). The piezometers PZ-17-1 and PZ-17-2 were installed five (5) feet west-southwest of recovery well RW-17-1 and 10 feet east-northeast of RW-17-1 respectively, to assist in the determination of radius of influence (ROI) during pumping and provide additional data to support dewatering design. Pilot study recovery well (RW-17-1) was installed 4.75 feet south-southeast of PZ-14-3 (Figure 3).

The borings were drilled using a track-mounted 3¼-inch I.D. CME-850 hollow stem auger (HSA) drill rig to a depth sufficient to encounter the upper portion of the glaciolacustrine sand aquifer, which underlies the Cheechunk Canal (Figure 4). At each location, soil samples were collected on a continuous basis from ground surface to termination depth using two a (2) -inch outside diameter (O.D.) split spoon. Each borehole was logged to confirm and further refine the local model of the critical site stratigraphy as it relates to the Landfill and the Cheechunk Canal.

Upon completion of sampling, two (2) boreholes were converted into a 1¼-inch I.D. temporary piezometer (PZ-17-1 and PZ-17-2) with a 10 foot long section of 0.01-inch (10 slot) machine slotted PVC well (Appendix A). The screened interval for each new piezometer was set at 20 to 30 feet below ground surface (bgs). The ground surface elevation, stickup height, measuring point elevation, screened interval, total depth, and critical geologic contact information for borings completed in the Project Area are provided in Table 1. As detailed in Table 1, the total depths for the overburden piezometers in the Project Area ranged from 28.91 feet bgs at PZ-14-4 to 39.5 feet bgs at PZ-14-1. The screened intervals for the 2014 and 2017 overburden piezometers were set in the uppermost portion of the overburden hydrogeologic unit (glaciolacustrine fine sand).

The elevation for the top of the piezometer casings (measuring points) were surveyed by Orange County personnel to allow for direct comparison of groundwater levels routinely measured at the Landfill, as well as the pilot study's pumping test. The apparent elevations of the Canal bank seeps downgradient from the piezometers, as well as the water level of the Canal, were also measured and recorded.

2.2 Recovery Well Installation (Pilot Study)

Subsurface drilling equipment was decontaminated prior to drilling and following completion of recovery well RW-17-1. Water used for decontaminating equipment was from a potable water source. A temporary decontamination pad was constructed by Cascade Environmental Drilling Services (Cascade) to contain wash water. Water used to decontaminate drilling equipment was drummed and sampled. Although not contaminated, the decontamination water drums were managed as Landfill leachate.

The recovery well location was accessed via the existing Landfill perimeter road. A pilot boring was advanced via 8¼-inch I.D., 12-inch O.D. Hollow Stem Auger (HSA) drilling methods using a track-mounted CME-850. The recovery well was extended to a depth of 35 feet bgs.

Upon achieving the final depth, a 6-inch I.D. recovery well was installed within the boring. The recovery well was constructed of a 5-foot long, 6-inch I.D. solid sump, 6-inch I.D. screen section, and a 6-inch I.D. riser pipe extending to the ground surface. The recovery well was equipped with No. 10 slot well screen set at 20 to 30 feet bgs (Appendix A). The annular space around the sump and well screen were filled with #0 filter sand extending to at least 2 feet above the top of the well screen, followed by a minimum 3-foot bentonite seal. The remaining annular space above the bentonite was backfilled with cement-bentonite grout. The recovery well was completed with an 8-inch I.D. steel protective casing.

The recovery well(s) was equipped with a two phase submersible pump (Grundfos Model 10 SQ-110), flow meter (GPI Electronic Water Meter: Model #01N31GM), water level pressure transducer (In-situ Level Troll 700) and pump controller. The pump controller was capable of adjusting the drawdown level in the well. Groundwater discharged from the recovery well was conveyed to a temporary holding tank (ALRM - 277 Series; capacity 8,816.3 gallons) during the pilot study. The initial pumping test and aquifer characterization performed during the pilot study focused on determination of anticipated groundwater pumping rates and the volume of water to be dewatered as a remedial measure.

2.3 Well Development

Well development was conducted for the new piezometers and recovery well after installation to remove sediment introduced or created during drilling and to allow formation water to flow freely into the well screen. Well development was continued until recorded turbidity readings were less than 50 NTUs or until the turbidity readings stabilized. All development water was contained and properly managed. For water removed during well development, water quality parameters and visual observations were recorded on well development logs (provided as Appendix N).

2.4 Pumping Test Program

The purpose of the well pumping and aquifer recovery test was to obtain shallow aquifer information for dewatering design at the Project Area. The phased scope of work included, 1) site inspection and well development; 2) background monitoring of existing piezometers, newly-installed piezometers and recovery well; 3) performing constant discharge pumping and recovery tests on 6-inch diameter recovery well (RW-17-1), calculating available drawdown, total saturated thickness, well yield, percent recovery, aquifer transmissivity and hydraulic conductivity; and, 4) preparing this summary report for dewatering

design.

Based on the results of the 2014 investigation, historic Post-Closure Monitoring (PCM), staff gauge and local groundwater inspection (Appendix B) and 2017 drilling, well development, and groundwater level measurements, STERLING determined the framework for the duration, magnitude, and design of the focused aquifer pumping test program. A short-term pumping test was determined sufficient to allow evaluation of hydraulic parameters and meet project objectives. The short-term pumping test(s) was conducted on recovery well RW-17-1 in accordance with the aquifer testing standards and procedures using a small diameter submersible pump to evaluate the preliminary aquifer yield and to obtain samples for general water quality characterization. The pumping test was conducted for 4.7 hours based on yield and drawdown data. Water level measurements were recorded before, during, and after the pumping test from PZ-14-1, PZ-14-2, PZ-14-3, PZ-14-4, PZ-14-5, PZ-14-6, PZ-17-1, and PZ-17-2.

Prior to implementation of the pumping test, the following were completed:

1. Performed pre-test monitoring in piezometers PZ-17-1 and PZ-17-2 and recovery well RW-17-1 for at least eight (8) hours.
2. Arranged for the volume of water generated during the pumping test to be stored in an ALRM - 277 series Porta Tank, supplied by Fred A. Cook, Jr., Inc. of Montrose, New York. The water generated during the pumping test was tested for disposal characteristics and managed as landfill leachate.
3. Cascade was used for installing piezometers and the recovery well and operating the pumping equipment (Grundfos Model 10 SQ-110) during the pumping test.
4. STERLING provided oversight of the piezometer/recovery well location, drilling, piezometer/recovery well design, piezometer/recovery well installation, and pump placement in the recovery well during the pumping test.
5. Equipment was decontaminated onsite and decontamination water, well development water, and pumped groundwater was handled as Investigation Derived Waste (IDW), which was temporarily stored onsite.

2.5 Waste Management

All drill cuttings, plastic sheeting, and personal protective equipment (PPE) was collected in properly labeled 55-gallon steel drums. Groundwater evacuated during the pilot study was containerized in a 10,000-gallon storage tank for offsite disposal at a permitted facility.

Drums and containers of material were labeled as “PENDING ANALYSIS - INVESTIGATION-DERIVED WASTE” with a description of the source (e.g., soil cuttings) and temporarily stored pending characterization and proper disposal. Containers were properly labeled, and characterized for disposal as non-hazardous waste or unregulated material. Containerized soil was analyzed for the following and in accordance with acceptance criteria at a selected disposal facility:

- Toxic Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs)
- TCLP semi-volatile organic compounds (SVOCs)
- TCLP Metals
- Corrosivity

- Reactivity
- Flash Point
- Polychlorinated biphenyls (PCBs)
- pH

3.0 PILOT TEST RESULTS

3.1 Background Monitoring

The static groundwater level was measured in each well prior to the start of the pumping test (Appendix C). Depth to groundwater was measured from the top of the well casing (i.e., below the measuring point (BMP)). In addition to continuous electronic monitoring, flow rates from the flow meter were recorded in the field for the pumping well. Electronic pressure transducers were installed in each of the two (2) observation wells (PZ-17-1 and PZ-17-2) and to the base of the sounding tube in recovery well RW-17-1 to measure water levels for a period of at least eight (8) hours (Midnight to 08:00 A.M. on June 15, 2017) before initiation of the aquifer testing and during the pumping test (Appendix C). Barometric pressure and precipitation were measured onsite and recorded during the background monitoring and individual recovery well pumping test.

The depth to water measurements ranged from 20.20 to 20.24 feet BMP (361.66 feet amsl to 361.70 feet amsl) and 20.49 to 20.52 feet BMP (361.49 feet amsl to 361.46 feet amsl) at piezometer PZ-17-2 and recovery well RW-17-1, respectively.

The depth to water measurements were stable at piezometer PZ-17-1 and ranged from 19.99 to 20.02 feet BMP (361.47 feet amsl to 361.50 feet amsl) between 4:00 A.M. and 8:00 A.M. on June 15, 2017 although five (5) minor fluctuations were observed between 10:38 P.M. (June 14, 2017) and 3:55 A.M. (June 15, 2017). The monitoring data were used to identify trends and to adjust water level measurements, if necessary, during analysis of the pumping test data.

3.2 Individual Recovery Well Pumping Test

The recovery well was equipped with a variable flow 12V submersible pump to control flow rate and a digital flow meter in the discharge line. The meter recorded instantaneous flow (in gallons per minute (gpm)). The flow meter was used to regulate discharge/flow rate.

STERLING completed a constant rate well pumping test in recovery well RW-17-1 on June 15, 2017. A short-term pumping test was performed at RW-17-1 to evaluate aquifer parameters and estimate the hydraulic conductivity, transmissivity, specific yield, and/or storativity of the glaciolacustrine sand unit (unconsolidated aquifer). The water level in the recovery well (RW-17-1) was monitored during pumping to measure the drawdown. Pumping was set at a flow rate slightly below the anticipated long-term yield and was continued at a constant rate (i.e., +/- 10% of initial rate) until stabilization was achieved. The flow rate was measured using a calibrated water meter. Water levels were measured using programmable, electronic pressure transducers installed in RW-17-1, PZ-17-1, and PZ-17-2 that are capable of rapid data measurements and recording (Appendix D). Water levels were manually measured periodically for backup and to check accuracy of the electronic equipment. In addition, water levels were manually measured at overburden piezometers PZ-14-1, PZ-14-2, PZ-14-3, PZ-14-4, PZ-14-5, and PZ-14-6 near the recovery well, as appropriate, to assess impacts due to pumping activities (Appendix D).

The pumping rate was initiated at 3 gpm and the recovery well dewatered quickly, with almost 10.2 feet

of drawdown within seven (7) minutes (Appendix D). The pumping rate was reduced to 0.5 gpm using a variable flow 12V pump and maintained a constant pumping rate for nearly three (3) hours (Appendix D). The potentiometric surface decreased 3.23 feet during this period prior to cavitating at 33.67 feet BMP. The pumping continued at 0.5 gpm for an additional one (1) hour and 25 minutes with no additional drawdown (Appendix D). Observations indicated an increased pumping rate would have resulted in an unsustainable drop in water levels. All pumped water was containerized in the storage tank.

3.2.1 Test Duration

The pumping test was terminated once the drawdown in the pumping well stabilized. Observed drawdown at RW-17-1 was 13.53 foot while observed drawdown at PZ-17-1 (0.86 foot), PZ-17-2 (0.83 foot), PZ-14-1 (0.30 foot), PZ-14-2 (0.49 foot), PZ-14-3 (0.83 foot), PZ-14-4 (0.44 foot), PZ-14-5 (0.16 foot), PZ-14-6 (0.33 foot). The aquifer drawdown was similar (0.83 foot to 0.86 foot) at the three closest piezometers (PZ-14-3, PZ-17-1, and PZ-17-2) and was consistent but less at the two piezometers (PZ-14-1 (0.30 foot of drawdown) and PZ-14-6 (0.33 foot of drawdown) approximately 50 feet from the pumped well. No significant lag effects were observed within the overburden piezometers in the vicinity of the Project Area. Water levels from the staff gauge in the Cheechunk Canal were not influenced from onsite pumping activities.

3.2.2 Recovery

Recovering water levels were recorded in the same manner and using the same time intervals as were used during the beginning of the constant discharge test (i.e., at approximately logarithmic time intervals) once the pump had been shut down. Water level recovery was measured for approximately two (2) hours following completion of pumping. The potentiometric surface in RW-17-1 recovered to within 60% of static over 24 minutes and over 98% of static 111.5 minutes after pumping (see Groundwater Drawdown and Recovery Curve, Appendix E).

A 7-minute recovery lag was observed at PZ-17-1, located five (5) feet from RW-17-1. Piezometer PZ-17-1 achieved 100% recovery within 73 minutes, while other piezometers had similar recovery lags and recovery times suggesting that the aquifer unit is homogeneous (Appendix E).

3.2.3 Water Quality Results

3.2.3.1 Field Parameters

Testing equipment was used to measure parameters at periodic intervals (approximately ½ hour) during the pumping test, including pH, specific conductivity, Oxidation-Reduction Potential (ORP), Dissolved Oxygen (DO), turbidity, and temperature of the groundwater (Appendix D). These parameters were used to qualitatively evaluate groundwater quality during the pumping program.

Field parameters were stable at the end of the pumping activities. The measurements are provided below:

- pH (7.4 S.U.);
- Specific Conductivity (1.43 us/cm);
- ORP (-35 mV);
- DO (46.84 mg/L to 53.65 mg/L); and,
- Turbidity (0.44 NTU).

Water quality parameters (DO, ORP, pH, specific conductance, Total Dissolved Solids (TDS), and turbidity) collected at RW-17-1 approximately 1½ hours into pumping and at the end of pumping were consistent to each other during both sampling events (Table 2).

Groundwater temperature readings in RW-17-; the following temperatures (°C) were recorded:

- 14.31°C (while pumping at 3 gpm);
- 15.93°C (while pumping at 0.5 gpm);
- 15.67°C (while pumping at 0.5 gpm, cavitation observed); and,
- 14.51°C (recovery stage).

The groundwater temperature did not increase during the pumping activity suggesting no influence from the warmer Cheechunk Canal during the pumping test.

3.2.3.1 Leachate Indicator Parameters

Groundwater samples collected from RW-17-1 approximately 1½ hours into pumping and at the end of pumping and were analyzed for 6 NYCRR Part 360 Leachate Indicator Parameters. No exceedances of TOGS 1.1.1 Ambient Water Quality Standards were reported (Table 2). The laboratory analytical report is provided in Appendix F. Water chemistry results for the beginning and end of pumping were generally consistent, except for Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), and ammonia. The value for COD increased from 13 mg/L (1½ hr) to an estimate of 8,700 mg/L. TKN increased from 4.74 mg/L (1½ hr) to 5.62 mg/L and ammonia increased from 4.55 mg/L (1½ hr) to 4.7 mg/L.

3.2.4 Hydrogeologic Analysis

The pumping test and monitoring data were analyzed according to accepted professional hydrogeologic procedures to determine the effects of pumping on the hydrogeologic system. Drawdown was calculated in the recovery well and piezometers to assess the yield of RW-17-1 and to determine the radius of influence. The effects of external influences were also considered during the analysis.

The pumping test analysis indicates similar findings collected in 2014 and demonstrates that the glaciolacustrine sand unit is lowly transmissive with similar hydrogeologic properties as summarized in STERLING's Long Term Seep Evaluation Report (December 2014). The recovery well sustained a pumping rate of 0.5 gpm during the pilot test and produced a drawdown of approximately 1.0 foot at a distance of 10 feet from the recovery well. The maximum spacing between additional pumping wells would be approximately 10 feet (or less), resulting in the need for a total of approximately 15 to 20 additional recovery wells with associated pumps, piping, and controls to effectively control groundwater upgradient of the seeps.

3.2.5 Waste Management

The 270.7 gallons of groundwater collected during the pumping test was transported and disposed of at the permitted Beacon Wastewater Treatment Plant on August 18, 2017. The drummed soil cuttings (six (6) open topped 55-gallon metal drums) have been temporarily placed on wooden pallets within the Methane Building, located near the northeastern corner of the closed landfill. Disposal characterization results are summarized in Table 3 and the Laboratory Analytical Report for the soil cuttings is provided in Appendix G.

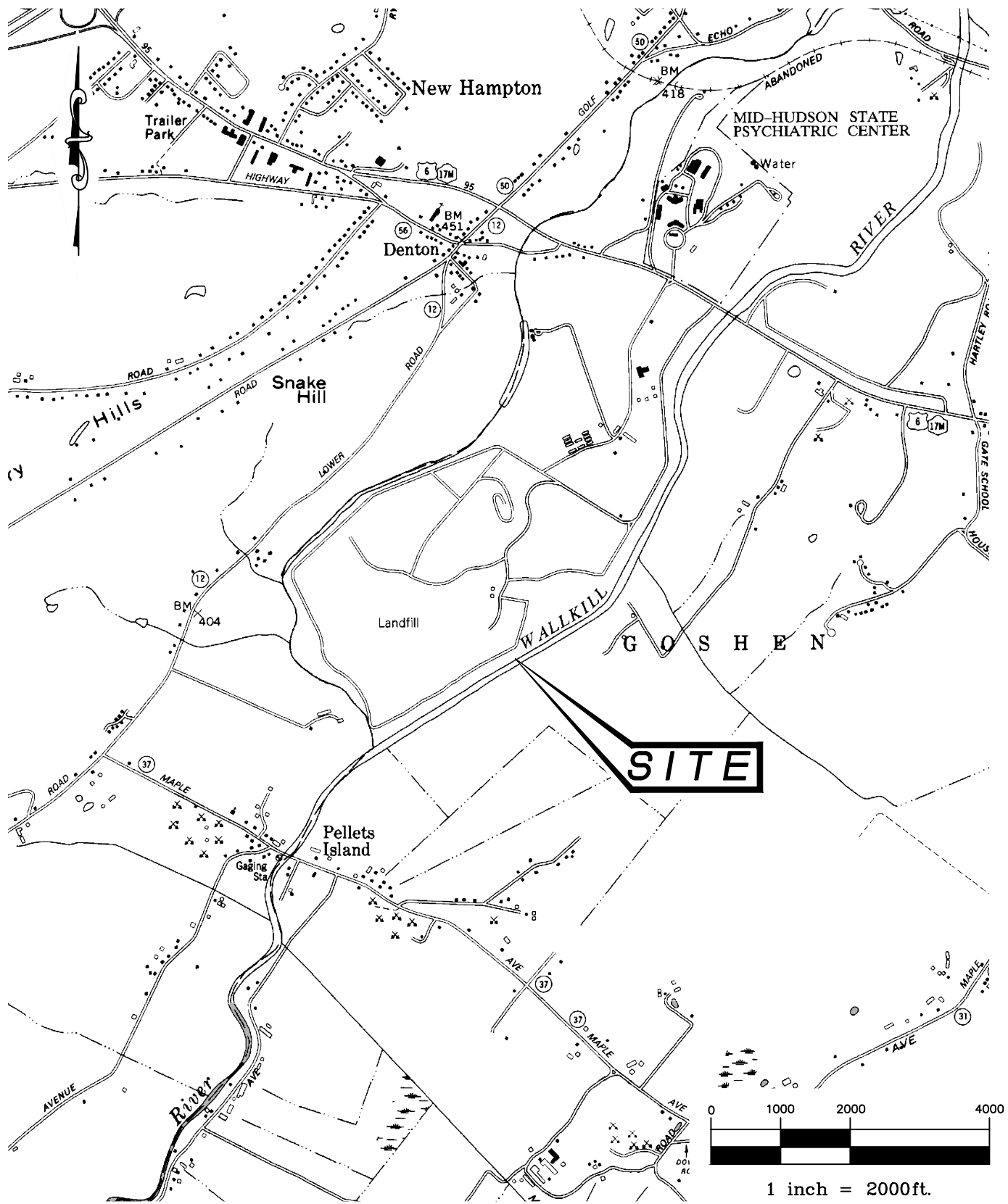
4.0 RECOMMENDATIONS

Given the construction challenges, STERLING is currently proposing the use of HDD and placement of a horizontal collection pipe as opposed to trenching due to its improved accessibility, precision, low impact to surrounding area, and would require fewer vertical recovery wells and pumps to achieve remedial goals due to longer lengths of well screen (e.g., hundreds of feet of well screen for horizontal wells) running parallel vs. perpendicular while providing a greater surface area in contact with locally impacted soil or groundwater. Bids have been obtained from qualified, competent, and proven HDD contractors.

The conceptual design for a HDD groundwater recovery system is summarized in Appendix H. The HDD groundwater recovery system will require NYSDEC approval since this design is a departure from the proposed recovery well design presented in the approved RAWP. A design package will be prepared after the conceptual design is approved by NYSDEC.

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FIGURES



STERLING

Sterling Environmental Engineering, P.C.

24 Wade Road ♦ Latham, New York 12110

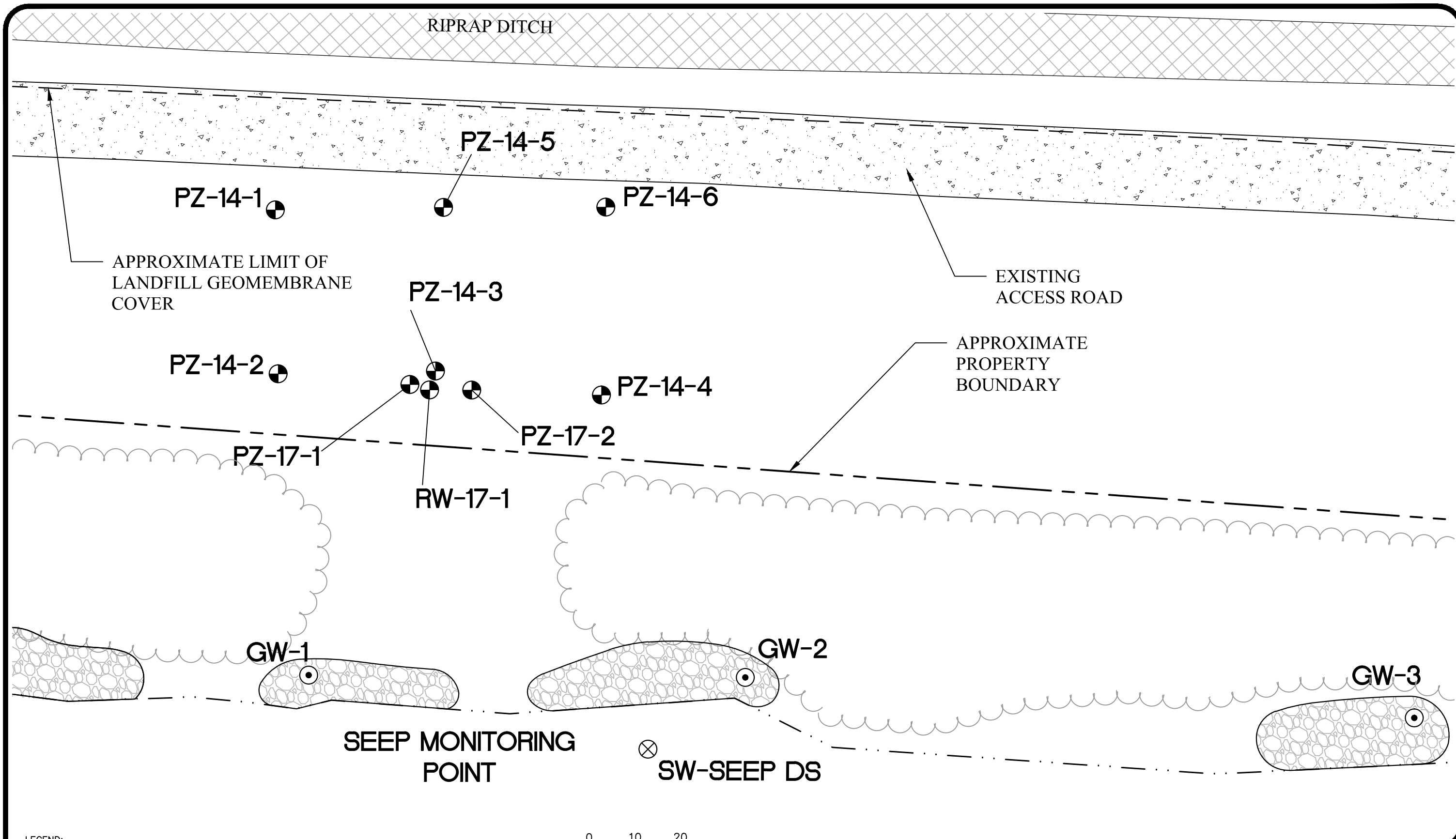
SITE LOCATION MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN

ORANGE CO., N.Y.

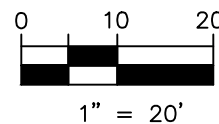
PROJ. No.: 2013-29 | DATE: 9/09/17 | SCALE: 1" = 2000' | DWG. NO. 2010-15038 | FIGURE 1

S:\Drawings\2010-15 - Orange County\2010-15072_F-3 - Seep Area_Piezometer Map.dwg CAD 6/30/2017 12:34 PM



LEGEND:

- MW-245S OVERBURDEN RECOVERY WELL AND PIEZOMETER LOCATION
- ⊙ GW-1 SEEP MONITORING LOCATION
- ⊗ SW-5 SURFACE WATER SAMPLE LOCATION
- LIMIT OF WASTE
- - - - - PROPERTY BOUNDARY



MAP REFERENCES:

1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.
2. AERIAL PHOTOGRAPHY FROM NEW YORK STATWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013.

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Sterling Environmental Engineering, P.C.

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SEEP AREA, RECOVERY WELL AND
PIEZOMETER LOCATION MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN

ORANGE CO., N.Y.

PROJ. No.: 2010-15 | DATE: 9/07/2017 | SCALE: 1" = 20' | DWG. NO. 2010-15072 | FIGURE 3

TABLES

Table 1

Summary of Borings/Piezometer/Well Information
Orange County Landfill, New Hampton, New York

Piezometer I.D.	Ground Surface Elevation (Site Datum) (feet)	Piezometer Stickup (feet)	Assumed MP Elevation (Site Datum) (feet)	Screened Interval / [Screened Elevation] (feet)	Total Depth (Feet BGS) / [Bottom Elevation]	Glaciolacustrine (Silt and Clay)/Glaciolacustrine Sand (Fine Sand) Interface (feet BGS) / [Geologic Contact Elevation]
PZ-14-1	389.62	0.65	390.27	34.5-39.5 / [355.12 - 350.12]	39.5 / [350.12]	34.1 / [355.52]
PZ-14-2	381.14	0.80	381.94	24.5-29.5 / [356.64 - 351.64]	30.26 / [350.88]	24.6 / [356.54]
PZ-14-3	381.48	0.35	381.83	24.92 -29.92 / [356.56 - 351.56]	29.92 / [351.56]	24.4 / [357.43]
PZ-14-4	380.42	1.35	381.77	23.91-28.91 / [356.51 - 351.51]	28.91 / [351.51]	23.9 / [356.52]
PZ-14-5	390.05	2.17	392.22	32.9-37.9 / [357.15 - 352.15]	37.86 / [352.19]	33.5 / [356.55]
PZ-14-6	390.23	0.88	391.11	34.2-39.2 / [356.03 - 351.03]	39.20 / [351.03]	33.85 / [356.38]
PZ-17-1	379.93	1.56	381.49	20.0-30.0 / [361.49 - 351.49]	30.0 / [351.49]	24.6 / [356.89]
PZ-17-2	379.67	2.23	381.90	20.0-30.0 / [361.90 - 351.90]	30.0 / [351.90]	24.6 / [357.30]
RW-17-1	379.47	2.51	381.98	20.0-30.0 / [361.98 - 351.98]	35.0 / [344.47]	24.6 / [357.38]

Table 2

**Summary of Groundwater Analytical Results
(RW-17-1 Pumping Test) - June 15, 2017
Orange County Landfill, Goshen, New York**

LOCATION			RW-17-1 (1.5 HR.)	RW-17-1 (END)
SAMPLING DATE			6/15/2017	6/15/2017
	NY-AWQS	Units		
Water Quality Parameters				
Dissolved Oxygen	---	mg/l	2.8	4200
Oxidation-Reduction Potential	---	mV	200	190
pH	---	S.U.	6.9	6.9
Specific Conductance @ 25° C	---	µmhos/cm	1,100	1,100
Total Dissolved Solids	---	mg/l	680	650
Turbidity	---	NTU	21	26
Leachate Indicator Parameters				
Alkalinity (Total)*	---	mg CaCO ₃ /L	555	537
BOD, 5 day*	---	mg/l	0.002 U	0.002 U
Bromide*	2.0	mg/l	327	329
Chemical Oxygen Demand*	---	mg/l	13	8,700 J
Chloride*	250	mg/l	60.8	59.9
Chromium (Hexavalent)	0.05	mg/l	0.01 U	0.01 U
Color, Apparent	---	A.P.C.U.	52	76
Cyanide, Total*	200	mg/l	0.005 U	0.005 U
Hardness	---	mg/l	514	478
Nitrogen, Ammonia*	---	mg/l	4.55	4.7
Nitrogen, Nitrite*	1.0	mg/l	50 U	50 U
Nitrogen, Total Kjeldahl*	---	mg/l	4.74	5.62
Phenolics, Total*	---	mg/l	0.03 U	0.03 U
Sulfate*	250	mg/l	29.5	26.4
Total Organic Carbon*	---	mg/l	3.04	3.16

Notes:

*NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.

U = Compound was not detected at or above the laboratory method detection limit.

J = Result is less than the reporting limit but greater than or equal to the method detection limit, for instance, the result may be uncertain.

--- = No applicable groundwater standard or guidance value exists.

Table 3

**Summary of Analytical Results (Disposal Characterization) - Soil Cuttings
Orange County Landfill (New Hampton, New York)**

LOCATION			RW-17-1 (SOIL CUTTINGS*)	
SAMPLING DATE			6/15/2017	
		RCRA TCLP	Units	Results
	Solids, Total	---	%	80.9
	pH (H)	<2 or >12.5	SU	8
	Cyanide, Reactive	10	mg/kg	10 U
	Sulfide, Reactive	10	mg/kg	10 U
	Ignitability	---		NI U
TCLP Volatiles by EPA 1311				
	Chloroform	6	mg/l	0.0016 J
	Carbon tetrachloride	0.5	mg/l	0.005 U
	Tetrachloroethene	0.7	mg/l	0.005 U
	Chlorobenzene	100	mg/l	0.005 U
	1,2-Dichloroethane	0.5	mg/l	0.005 U
	Benzene	0.5	mg/l	0.005 U
	Vinyl chloride	0.2	mg/l	0.01 U
	1,1-Dichloroethene	0.7	mg/l	0.005 U
	Trichloroethene	0.5	mg/l	0.005 U
	1,4-Dichlorobenzene	7.5	mg/l	0.025 U
	2-Butanone	200	mg/l	0.05 U
TCLP Semivolatiles by EPA 1311				
	Hexachlorobenzene	0.13	mg/l	0.01 U
	2,4-Dinitrotoluene	0.13	mg/l	0.025 U
	Hexachlorobutadiene	0.5	mg/l	0.01 U
	Hexachloroethane	3	mg/l	0.01 U
	Nitrobenzene	2	mg/l	0.01 U
	2,4,6-Trichlorophenol	2	mg/l	0.025 U
	Pentachlorophenol	100	mg/l	0.05 U
	2-Methylphenol	200	mg/l	0.025 U
	3-Methylphenol/4-Methylphenol	200	mg/l	0.025 U
	2,4,5-Trichlorophenol	400	mg/l	0.025 U
	Pyridine	5	mg/l	0.018 U
TCLP Metals by EPA 1311				
	Arsenic, TCLP	5	mg/l	0.036 J
	Barium, TCLP	100	mg/l	0.85
	Cadmium, TCLP	1	mg/l	0.1 U
	Chromium, TCLP	5	mg/l	0.2 U
	Lead, TCLP	5	mg/l	0.251 J
	Mercury, TCLP	0.2	mg/l	0.001 U
	Selenium, TCLP	1	mg/l	0.5 U
	Silver, TCLP	5	mg/l	0.1 U

**Summary of Analytical Results (Disposal Characterization) - Soil Cuttings
Orange County Landfill (New Hampton, New York)**

LOCATION				RW-17-1
SAMPLING DATE				6/15/2017
		RCRA TCLP	Units	Results
TCLP PCBs by EPA 1311				
	Aroclor 1016	5	mg/l	0.0025 U
	Aroclor 1221	5	mg/l	0.0025 U
	Aroclor 1232	5	mg/l	0.0025 U
	Aroclor 1242	5	mg/l	0.0025 U
	Aroclor 1248	5	mg/l	0.0025 U
	Aroclor 1254	5	mg/l	0.0025 U
	Aroclor 1260	5	mg/l	0.0025 U
	Aroclor 1262	5	mg/l	0.0025 U
	Aroclor 1268	5	mg/l	0.0025 U
	PCBs, Total	5	mg/l	0.0025 U
TCLP Pesticides by EPA 1311				
	Lindane	0.4	mg/l	0.0001 U
	Heptachlor	0.008	mg/l	0.0001 U
	Heptachlor epoxide	0.008	mg/l	0.0001 U
	Endrin	0.02	mg/l	0.0002 U
	Methoxychlor	10	mg/l	0.001 U
	Toxaphene	0.5	mg/l	0.001 U
	Chlordane	0.03	mg/l	0.001 U
TCLP Herbicides by EPA 1311				
	2,4-D	10	mg/l	0.025 U
	2,4,5-TP (Silvex)	1	mg/l	0.005 U

Notes:

*RCRA TCLP: Regulations defined as per 40 CFR 261.24.

U = Compound was not detected at or above the laboratory method detection limit.

J = Result is less than the reporting limit but greater than or equal to the method detection limit, for instance, the result may be uncertain.

--- = No applicable groundwater standard or guidance

NI = Not Ignitable

Casella requires submittal of Full TCLP, Total PCBs, pH, Reactivity, Ignitibility, and % Solids.

APPENDIX A

BORING LOGS AND WELL CONSTRUCTION FORMS

Boring Log

Boring ID: **PZ-17-1**

Project Name/No. Orange County Landfill / 2010-15

Location:

Drilling Contractor/Personne Aquifer Drilling and Testing - Roger Buley, Jason Kretser

Drilling Equip./Method: Hollow Stem Auger

Inspector: Joseph Spaulding

Sampling Method: 2.0' Split Spoon Sampling

Size/Type of Bit: 3¼" Auger, 2.0" Split Spoon

Elevation/Ground Surface: 89.66'

Start/Finish Date: 6-14-17 / 6-14-17

Depth to Groundwater (date: 19.62' (6/15/17))

Well Type: 1.0" PVC piezometer

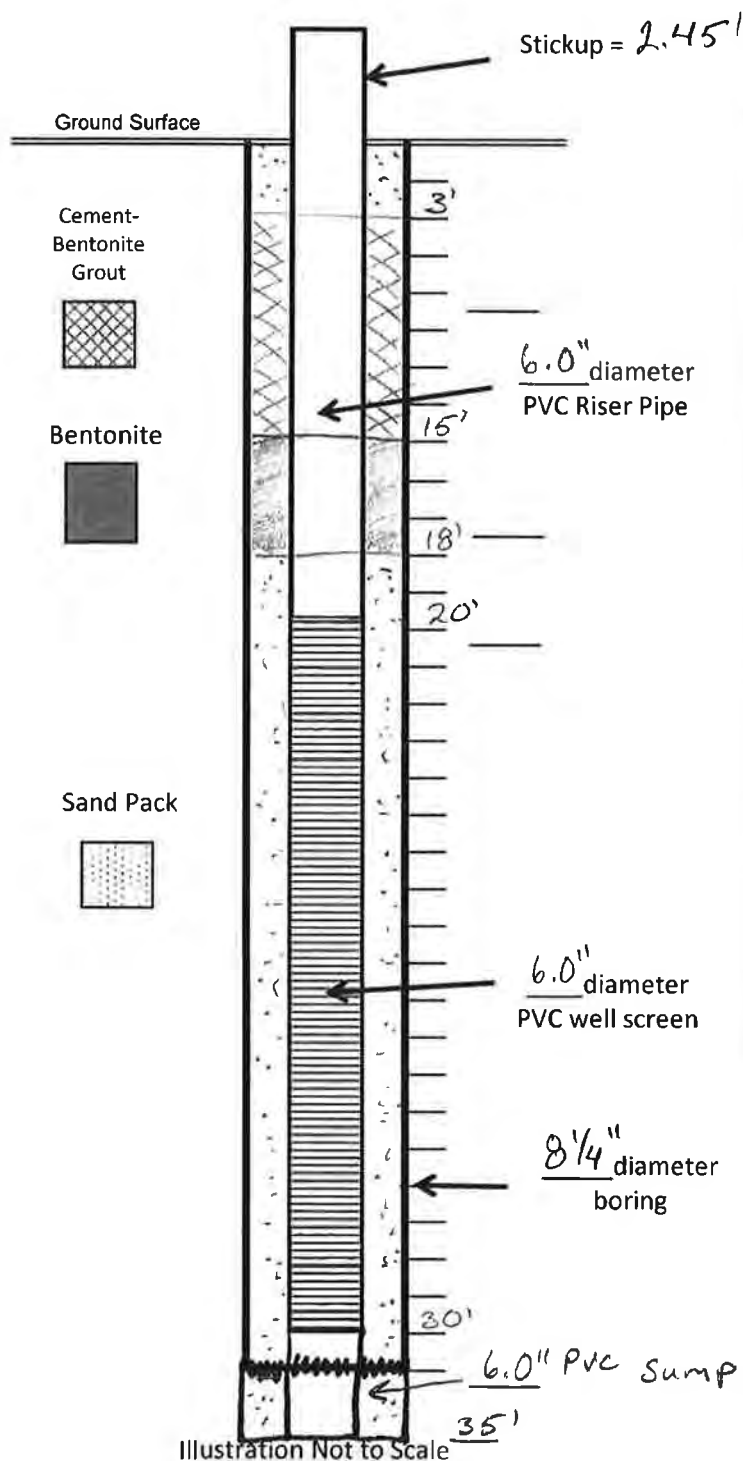
Depth (ft.)	Sample No.	Blow Counts					Recovery (ft.)	Geologic Description	Comments
		0-6	6-12	12-18	18-24	N			
0.0									
2.0									
4.0									
6.0									
8.0									
10.0								Soil Logging and Split Spoon Sampling starts at 10.0'	
12.0	1	2	3	3	2	6	2.0	Dark grey CLAY & SILT; mottled; medium stiff; medium plasticity; dry to moist Grey to dark grey CLAY & SILT, medium plasticity; moist to wet; medium stiff ----- Glaciolacustrine SILT and CLAY ----- 24.6' Grey to dark grey very fine to fine SAND; loose medium dense; wet Grey to dark grey very fine to fine SAND; little silt; loose; wet Glaciolacustrine SAND	No staining, odors or elevated PID headspace levels throughout boring.
14.0	2	2	4	4	5	8	1.7		
16.0	3	2	2	3	3	5	2.0		
18.0	4	2	3	4	5	7	1.7		
20.0	5	2	2	3	3	5	1.9		
22.0	6	2	3	2	3	5	1.8		
24.0	7	2	2	3	4	5	1.8		
26.0	8	5	5	5	6	10	1.4		
28.0	9	4	5	5	6	10	2.0		
30.0	10	4	5	5	6	10	1.4		
32.0	11	3	3	3	4	6	2.0		
34.0	12	W.O.R.				1	1.5		
36.0	13	1	3	3	3	6	1.8		
38.0								Bottom of Boring at 36'	W.O.R. = Weight of Rods
40.0									

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

STERLING

Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG



Well No.: RW-17-1
Installation Date: 6/13/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2018-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 6.0" PVC Recovery Well
Static Water Level 20.92
Measuring Point Top PVC
Date 6/14/17
Total Well Depth 37.45'

RISER PIPE:

Material PVC Length
Joint Type Threaded Diameter 6.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 Slot Diameter 6.0"
Stratigraphic Unit Glaciolacustrine Silt & Sand

PACKING:

Sand #0 Filler Gravel N/A Natural N/A
Amount 15 bags Interval 18'-35"

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter

Notes:

Protective cover to be installed at a later date (10" steel casing)

Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG

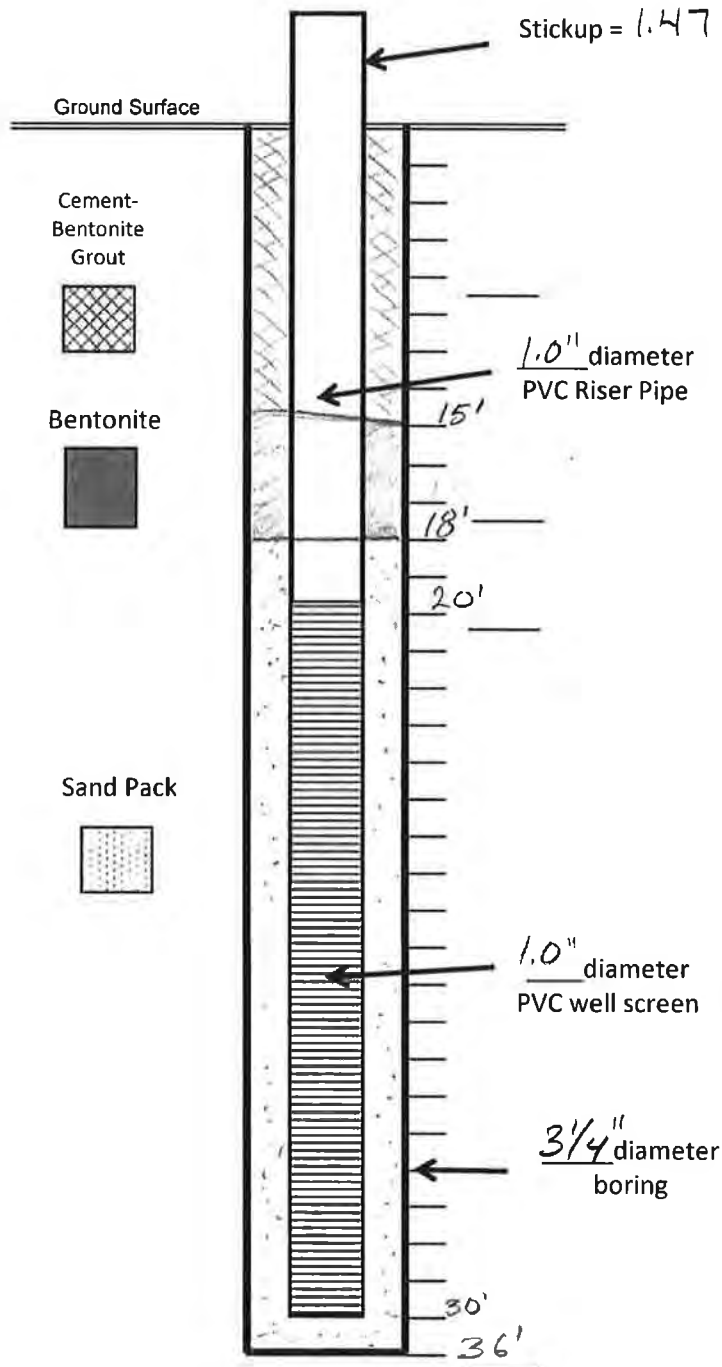


Illustration Not to Scale

Well No.: PZ-17-1

Installation Date: 6/12/17

Inspector: Joseph Spaulding

Project Name: Orange Co. Landfill

Project Number: 2010-15

Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well	10" PVC piezometer
Static Water Level	20.03
Measuring Point	Top PVC
Date	6/14/17
Total Well Depth	31.47'

RISER PIPE:

Material PVC Length
Joint Type Threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 Slot Diameter 1.0"
Stratigraphic Unit Glaciolacustrine Silt & Sand

PACKING:

Sand #0 Filter Gravel N/A Natural N/A
Amount 4 bags Interval 18' - 36'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter *N/A*

Notes:

STERLING

Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG

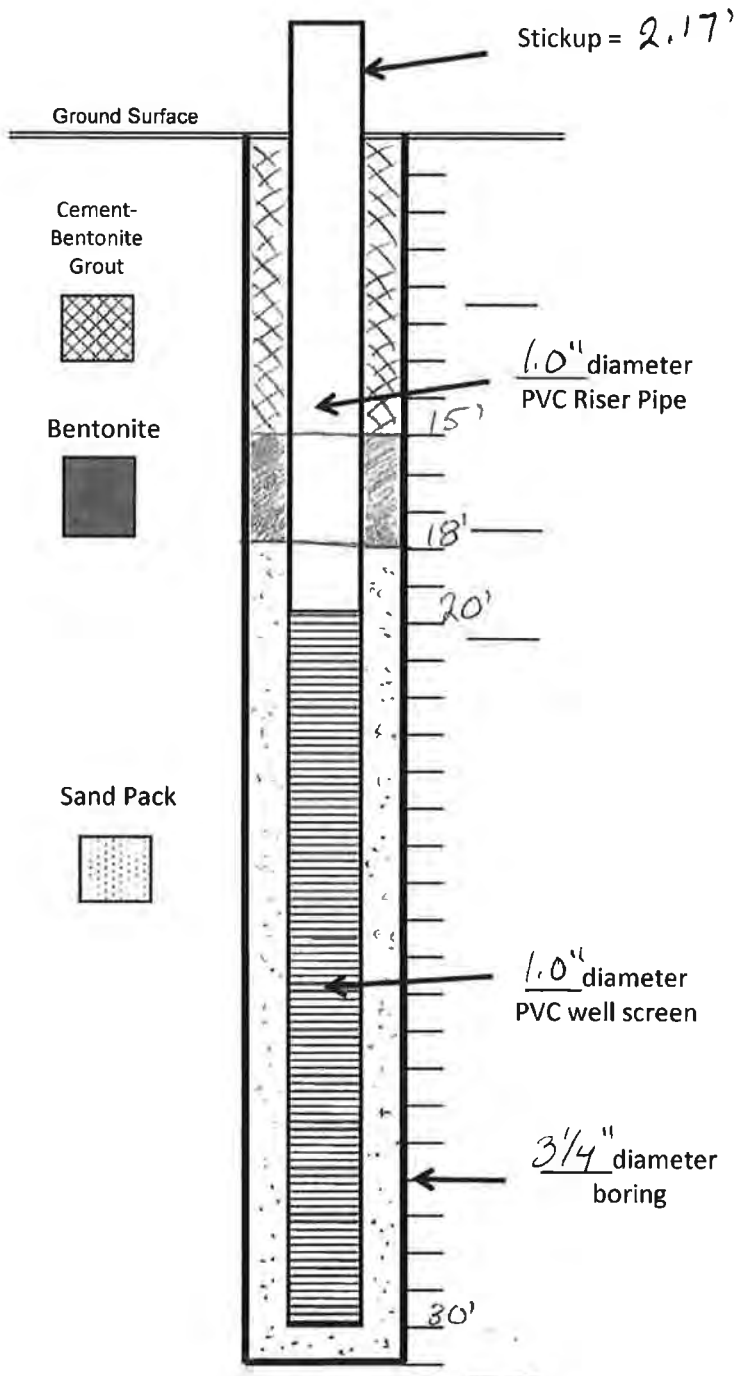


Illustration Not to Scale

Well No.: P2-17-2
 Installation Date: 6/13/17
 Inspector: Joseph Spaulding
 Project Name: Orange Co. Landfill
 Project Number: 2016-15
 Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 1.0" PVC piezometer
 Static Water Level 20.36'
 Measuring Point Top PVC
 Date 6/14/17
 Total Well Depth 32.17'

RISER PIPE:

Material PVC Length
 Joint Type Threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
 Slot Size 10 Slot Diameter 1.0"
 Stratigraphic Unit Glaciolacustrine Silt & Sand

PACKING:

Sand #10 Filter Gravel N/A Natural N/A
 Amount 3 bags Interval 18'-30'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
 Diameter

Notes:

Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG

Well No.: RW-17-1

Installation Date: 6/13/17

Inspector: Joseph Spaulding

Project Name: Oregon Co. Landfill

Project Number: 2010-15

Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 6.0" PVC Recovery Well

Static Water Level 20.92

Measuring Point Top PVC

Date 6/14/17

Total Well Depth 37.45'

RISER PIPE:

Material PVC

Length

Joint Type Threaded

Diameter 6.0"

SCREEN:

Material PVC

Length 10'

Slot Size 10 slot

Diameter 6.0"

Stratigraphic Unit Glaciolacustrine silt + sand

PACKING:

Sand # 0 Filler Gravel N/A Natural N/A

Amount 15 bags Interval 18'-35'

SEAL:

Type *Beaumontite*

Interval 15'-18'

PROTECTIVE COVER:

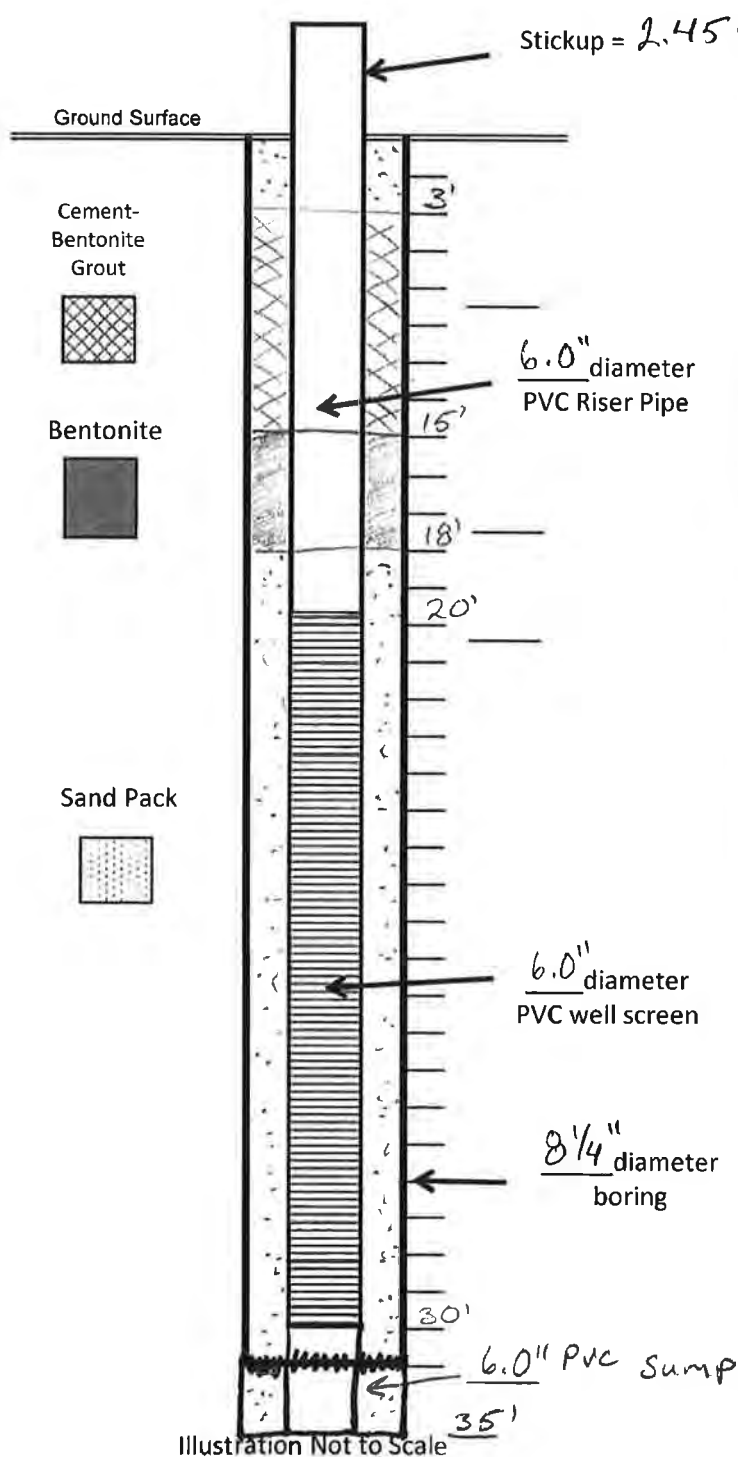
Yes ☐

No

Diameter

Notes:

Protective Cover to be installed at a later date (10" steel casing)





Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG

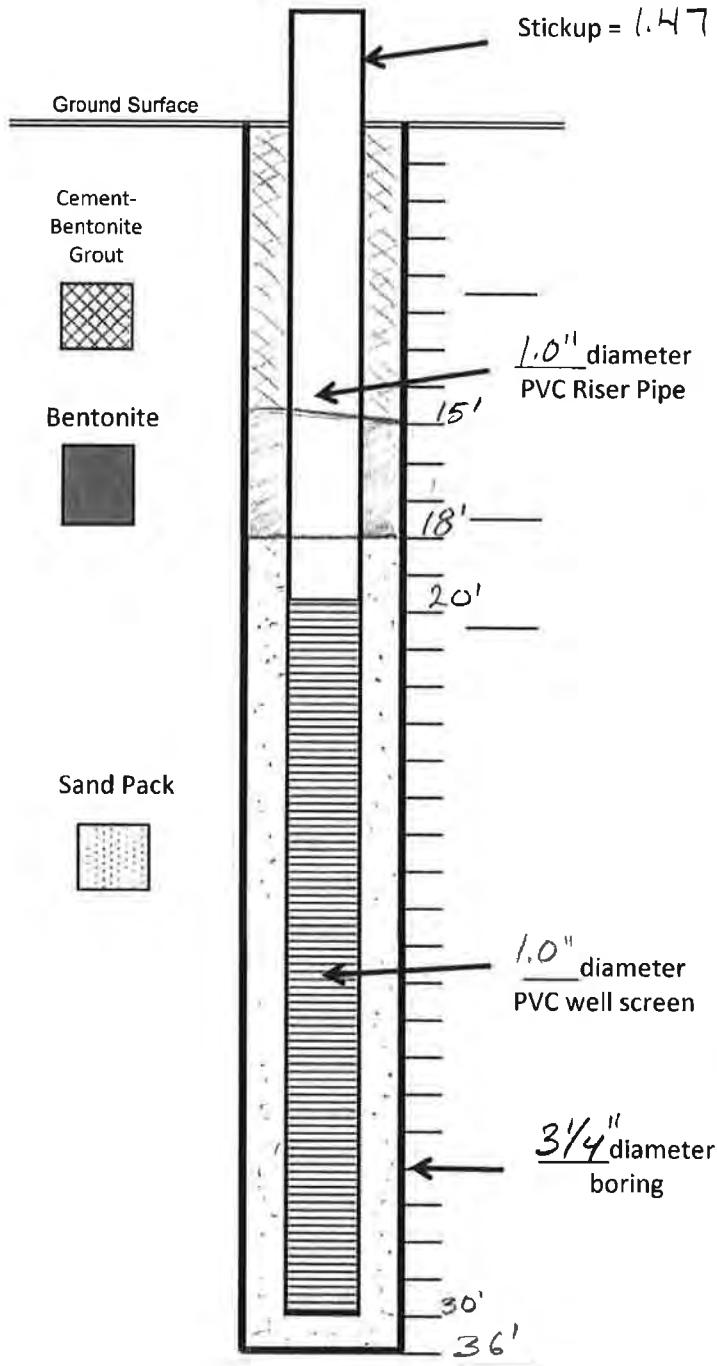


Illustration Not to Scale

Well No.: PZ-17-1
Installation Date: 6/12/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2010-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 1.0" PVC piezometer
Static Water Level 20.03
Measuring Point Top PVC
Date 6/14/17
Total Well Depth 31.47'

RISER PIPE:

Material PVC Length _____
Joint Type Threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 Slot Diameter 1.0"
Stratigraphic Unit Glaciolacustrine Silt & Sand

PACKING:

Sand #0 Filter Gravel N/A Natural N/A
Amount 4 bags Interval 18' - 36'

SEAL:

Type Bentonite Interval 15' - 18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter N/A

Notes:

STERLING

Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG

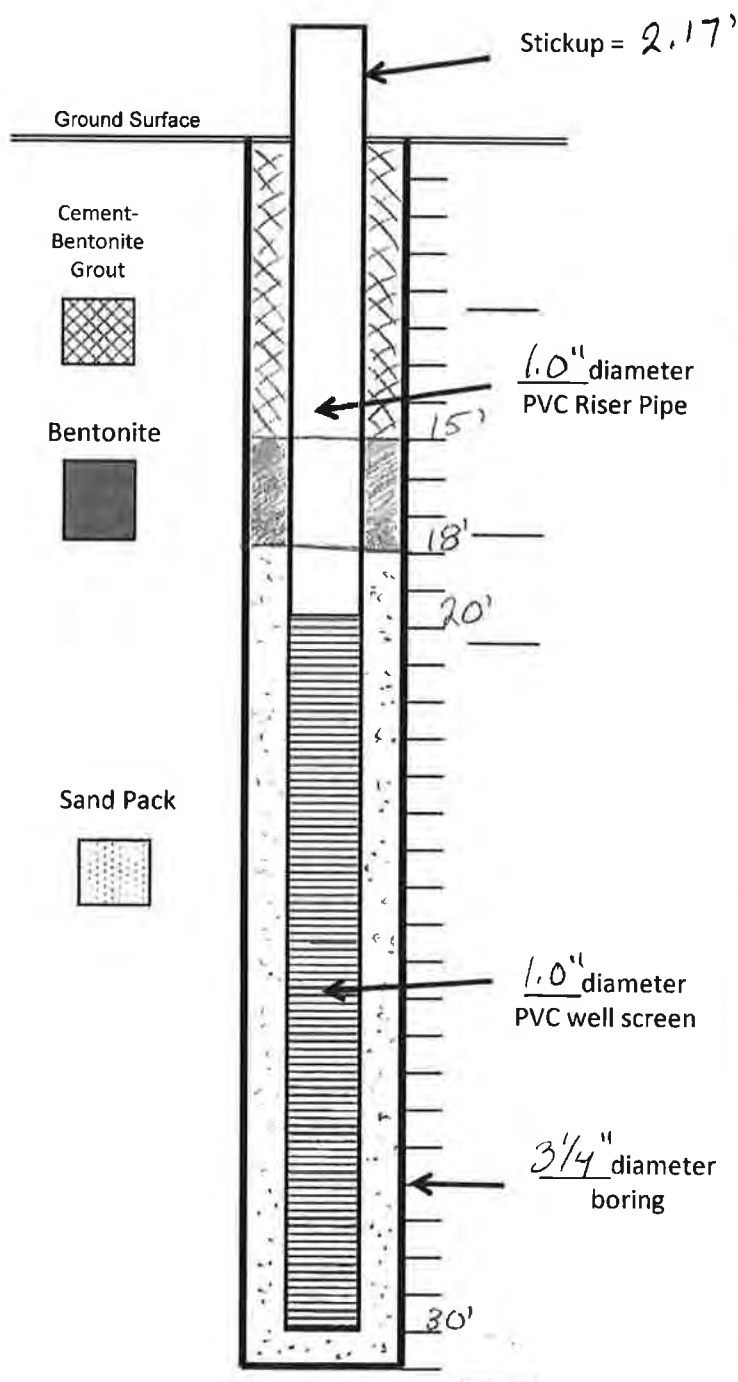


Illustration Not to Scale

Well No.: PZ-17-2
 Installation Date: 6/13/17
 Inspector: Joseph Spaulding
 Project Name: Orange Co. Landfill
 Project Number: 2010-15
 Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 1.0" PVC piezometer
 Static Water Level 20.36
 Measuring Point Top PVC
 Date 6/14/17
 Total Well Depth 32.17'

RISER PIPE:

Material PVC Length
 Joint Type threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
 Slot Size 10 Slot Diameter 1.0"
 Stratigraphic Unit Glaciolacustrine silt & sand

PACKING:

Sand #10 Filter Gravel N/A Natural N/A
 Amount 3 bags Interval 18'-30'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
 Diameter

Notes:



BORING LOG

Boring No. PZ-14-1

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 19, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 12°F - 40°F, 1.55" Precip (wintry mix) Winds (1-3mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 39.5' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 19, 2014 **Surface Elev.:** 99.35' (Site Datum)
Date Completed: February 19, 2014 **Depth Elev.:** 59.85' (Site Datum)

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					BrGr Cy\$; occ. mtld; no odor; med. stiff; moist (ML/CL).	
			5		BrGr Cy\$l, fS; no odor; med. stiff; moist (ML).	
			10		BrGr C&\$; no odor; med. stiff; low to mod. plasticity; moist (ML/CL).	
			15		BrGr \$&Cl(-),vfS(\$); no odor; stiff; occ. to freq. vvd; low to mod. plasticity; moist (ML/CL).	
			20		Gr C&\$; no odor; stiff to hard; occ. to freq. vvd (partings 0.4 – 0.1'); mod. plasticity; moist (ML/CL).	
			25		(GLACIOLACUSTRINE SILT AND CLAY)	



BORING LOG

Boring No. PZ-14-1

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 19/20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: See page 1 of 2 **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 39.5' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 19, 2014 **Surface Elev.:** 99.35' (Site Datum)
Date Completed: February 19, 2014 **Depth/Datum:** 59.85' (Site Datum)

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					Gr C&S; no odor; soft to mod. stiff; occ. to freq. vvd; mod. plasticity; moist (ML/CL).	Depth to Groundwater = 26.29' bgs (March 18, 2014) 1½" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 34.5 -39.5' bgs.
			30		Gr CyS; no odor; mod. stiff to soft; freq. vvd; mod. plasticity; moist to wet (ML).	
			35		(GLACIOLACUSTRINE SILT AND CLAY) 34.1' GrfS, sCyS; no odor; med. dense; wet (SM/ML).	
			40		GrfS, l(-)CyS; no odor; med. dense; wet (SM/ML). (GLACIOLACUSTRINE SAND) 39.5'	
			45		Boring terminated at 39.5 feet below ground surface (bgs).	
			50			



BORING LOG

Boring No. PZ-14-2

Project Name:	<u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u>	Project No.:	<u>2010-15</u>
Client Name:	<u>Orange County Department of Public Works</u>	Date:	<u>February 19, 2014</u>
Location:	<u>Goshen, NY</u>	Logged By:	<u>Mark Williams</u>
Weather/Temp.:	<u>12°F - 40°F, 1.55" Precip (wintry mix) Winds (1-3mph)</u>	Checked By:	<u>Peter Kelleher, P.E.</u>

Drilling Co.:	<u>Zebra Environmental Corp.</u>	Depth:	<u>30' bgs</u>
Driller:	<u>Jason Frederick</u>	Equipment:	<u>Geoprobe® 7720 DT</u>
Date Started:	<u>February 19, 2014</u>	Surface Elev.:	<u>90.87' (Site Datum)</u>
Date Completed:	<u>February 19, 2014</u>	Depth Elev.:	<u>60.61' (Site Datum)</u>

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					Gr C&\$; no odor; mod. stiff; occ. vvd; mod. plasticity; moist (ML/CL).	
			5		Gr \$&C; no odor; mod. stiff; occ. to freq. vvd; mod. (0.01' partings); plasticity; moist (ML/CL).	
			10		Gr \$&C; no odor; stiff; freq. vvd (0.04 – 0.07' partings); mod. plasticity; moist (ML/CL).	
			15		Gr C&\$; no odor; stiff; occ. - freq. vvd); mod. plasticity; moist to wet (ML/CL).	
			20		Gr \$&C; no odor; mod. stiff to stiff; occ. - freq. vvd; mod. plasticity; moist to wet (ML/CL).	
			25		(GLACIOLACUSTRINE SILT AND CLAY) 24.6' GrfS, aCy\$; no odor; med. dense; wet (SM/ML) (GLACIOLACUSTRINE SAND)	Depth to Groundwater = 18.24' bgs (March 18, 2014)



Sterling Environmental Engineering, P.C.

BORING LOGBoring No. PZ-14-2

Project Name:	<u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u>	Project No.:	<u>2010-15</u>
Client Name:	<u>Orange County Department of Public Works</u>	Date:	<u>February 19, 2014</u>
Location:	<u>Goshen, NY</u>	Logged By:	<u>Mark Williams</u>
Weather/Temp.:	<u>See page 1 of 2</u>	Checked By:	<u>Peter Kelleher, P.E.</u>

Drilling Co.:	<u>Zebra Environmental Corp.</u>	Depth:	<u>30'bgs</u>
Driller:	<u>Jason Frederick</u>	Equipment:	<u>Geoprobe® 7720 DT</u>
Date Started:	<u>February 19, 2014</u>	Surface Elev.:	<u>90.87' (Site Datum)</u>
Date Completed:	<u>February 19, 2014</u>	Depth/Datum:	<u>60.61' (Site Datum)</u>

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
			30		GrfS, t\$; no odor; med. dense; wet; GrmfS @ 27.6 -28.7' bgs (SM). (GLACIOLACUSTRINE SAND) 30.26'	1¼" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 24.5 -29.5'bgs.
					Boring terminated at 30.26 feet below ground surface (bgs).	
			35			
			40			
			45			
			50			



BORING LOG

Boring No. PZ-14-3

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 19, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 12°F - 40°F, 1.55" Precip (wintry mix) Winds (1-3mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 30' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 19, 2014 **Surface Elev.:** 91.21' (Site Datum)
Date Completed: February 19, 2014 **Depth Elev.:** 61.29' (Site Datum)

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					Br-GrBr Cy\$; no odor; occ. mtd; mod. stiff; occ. vvd; low to mod. plasticity; dry to moist (ML/CL).	
			5		Gr C&\$; no odor; mod. stiff; freq. vvd (partings 0.01'); mod. plasticity; moist to wet (ML/CL).	
			10		BrGr Cy\$; no odor; mod. stiff; freq. vvd (partings 0.01'); mod. plasticity; moist to wet (ML/CL).	
			15		BrGr Cy\$; no odor; mod. stiff to stiff; freq. vvd (partings <0.01'); mod. plasticity; moist (ML/CL).	
			20		BrGr Cy\$; no odor; soft to mod. stiff; massive; mod. plasticity; moist (ML/CL).	
			25		(GLACIOLACUSTRINE SILT AND CLAY) 24.4' DkGrIS, l(-)\$; med. dense; wet (SM/ML). (GLACIOLACUSTRINE SAND)	Depth to Groundwater = 18.30' bgs (March 18, 2014)



BORING LOG

Boring No. PZ-14-3

Project Name:	<u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u>	Project No.:	<u>2010-15</u>
Client Name:	<u>Orange County Department of Public Works</u>	Date:	<u>February 19, 2014</u>
Location:	<u>Goshen, NY</u>	Logged By:	<u>Mark Williams</u>
Weather/Temp.:	<u>See page 1 of 2</u>	Checked By:	<u>Peter Kelleher, P.E.</u>

Drilling Co.:	<u>Zebra Environmental Corp.</u>	Depth:	<u>30'bgs</u>
Driller:	<u>Jason Frederick</u>	Equipment:	<u>Geoprobe® 7720 DT</u>
Date Started:	<u>February 19, 2014</u>	Surface Elev.:	<u>91.21' (Site Datum)</u>
Date Completed:	<u>February 19, 2014</u>	Depth/Datum:	<u>61.29' (Site Datum)</u>

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
			30		Grmf(+)S; no odor; med.dense; laminated; wet(SM/ML). (GLACIOLACUSTRINE SAND) 29.92'	2" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 24.92 -29.92'bgs.
					Boring terminated at 29.92 feet below ground surface (bgs).	
			35			
			40			
			45			
			50			



BORING LOG

Boring No. PZ-14-4

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 23°F - 50°F, 0" Precip, Winds (1-4mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 30' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 20, 2014 **Surface Elev.:** 90.15' (Site Datum)
Date Completed: February 20, 2014 **Depth Elev.:** 61.24' (Site Datum)

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					GrBr Cy\$; no odor; occ. mtld; mod. stiff to stiff; occ. vvd (partings 0.01'); low to mod. plasticity; dry to moist (ML).	
			5		BrGr \$&C to Cy\$; no odor; mod. stiff to stiff; freq. vvd (partings 0.01'); low to mod. plasticity; moist (ML/CL).	
			10		BrGr \$&C to \$yC; no odor; mod. stiff; occ. to freq. vvd (partings 0.01'); mod. plasticity; moist (ML/CL).	
			15		Gr Cy\$ to \$&C; no odor; mod. stiff; occ. to freq. vvd (partings 0.02 – 0.07'); mod. plasticity; moist to wet (ML/CL).	
			20		GrCy\$ to \$&C; no odor; mod. stiff; massive; moist to wet (ML/CL).	
			25		(GLACIOLACUSTRINE SILT AND CLAY) 23.9' DkGrmf(+)fS, l(-)Cy\$; no odor; med. dense; wet (SM/ML). (GLACIOLACUSTRINE SAND)	Depth to Groundwater = 18.23' bgs (March 18, 2014)



BORING LOG

Boring No. PZ-14-4

Project Name:	<u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u>	Project No.:	<u>2010-15</u>
Client Name:	<u>Orange County Department of Public Works</u>	Date:	<u>February 20, 2014</u>
Location:	<u>Goshen, NY</u>	Logged By:	<u>Mark Williams</u>
Weather/Temp.:	<u>See page 1 of 2</u>	Checked By:	<u>Peter Kelleher, P.E.</u>

Drilling Co.:	<u>Zebra Environmental Corp.</u>	Depth:	<u>38.91'bgs</u>
Driller:	<u>Jason Frederick</u>	Equipment:	<u>Geoprobe® 7720 DT</u>
Date Started:	<u>February 20, 2014</u>	Surface Elev.:	<u>90.15' (Site Datum)</u>
Date Completed:	<u>February 20, 2014</u>	Depth/Datum:	<u>61.24' (Site Datum)</u>

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
			30		Grmf(+)S; no odor; med.dense; laminated; wet(SM/ML). (GLACIOLACUSTRINE SAND) 28.91'	2" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 23.91 -28.91'bgs.
					Boring terminated at 28.91 feet below ground surface (bgs).	
			35			
			40			
			45			
			50			



BORING LOG

Boring No. PZ-14-5

Project Name:	<u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u>	Project No.:	<u>2010-15</u>
Client Name:	<u>Orange County Department of Public Works</u>	Date:	<u>February 20, 2014</u>
Location:	<u>Goshen, NY</u>	Logged By:	<u>Mark Williams</u>
Weather/Temp.:	<u>23°F - 50°F, 0" Precip, Winds (1-4mph)</u>	Checked By:	<u>Peter Kelleher, P.E.</u>

Drilling Co.:	<u>Zebra Environmental Corp.</u>	Depth:	<u>38' bgs</u>
Driller:	<u>Jason Frederick</u>	Equipment:	<u>Geoprobe® 7720 DT</u>
Date Started:	<u>February 20, 2014</u>	Surface Elev.:	<u>99.78' (Site Datum)</u>
Date Completed:	<u>February 20, 2014</u>	Depth Elev.:	<u>61.92' (Site Datum)</u>

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					BrGr Cy\$; no odor; occ. mtld; med. stiff; moist (ML/CL).	
			5		BrGr Cy\$; no odor; med. stiff; moist (ML).	
			10		BrGr C&\$; no odor; med. stiff; low to mod. plasticity; moist (ML/CL).	
			15		BrGr-Gr \$&Ct, vFS(\$); no odor; mod. stiff; occ.vvd; low to mod. plasticity; moist (ML/CL).	
			20		Gr Cy\$ to \$&C; no odor; mod. stiff; occ. vvd (partings = 0.04 – 0.07"); low to mod. plasticity; moist (ML/CL).	
			25		(GLACIOLACUSTRINE SILT AND CLAY)	

**BORING LOG**Boring No. PZ-14-5

Project Name:	<u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u>	Project No.:	<u>2010-15</u>
Client Name:	<u>Orange County Department of Public Works</u>	Date:	<u>February 20, 2014</u>
Location:	<u>Goshen, NY</u>	Logged By:	<u>Mark Williams</u>
Weather/Temp.:	<u>See page 1 of 2</u>	Checked By:	<u>Peter Kelleher, P.E.</u>

Drilling Co.:	<u>Zebra Environmental Corp.</u>	Depth:	<u>38'bgs</u>
Driller:	<u>Jason Frederick</u>	Equipment:	<u>Geoprobe® 7720 DT</u>
Date Started:	<u>February 20, 2014</u>	Surface Elev.:	<u>99.78' (Site Datum)</u>
Date Completed:	<u>February 20, 2014</u>	Depth/Datum:	<u>61.92' (Site Datum)</u>

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
			30		Gr Cy\$ to \$&C; no odor; mod. stiff; occ. to freq. vvd (partings = 0.05'); mod. plasticity; wet to moist (ML/CL).	Depth to Groundwater = 28.32' bgs (March 18, 2014) 2" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 32.9 -34.9'bgs.
					Gr Cy\$; no odor; soft to mod. stiff; massive; low plasticity; moist to wet (ML).	
			35		(GLACIOLACUSTRINE SILT AND CLAY) 33.5' DkGrmf(+)S, t\$; laminated; med. dense to dense; wet (SM).	
					Gr-DkGrfS; no odor; dense; wet (SM).	
			40		(GLACIOLACUSTRINE SAND) 37.86' Boring terminated at 37.86 feet below ground surface (bgs).	
			45			
			50			



BORING LOG

Boring No. PZ-14-6

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 23°F - 50°F, 0" Precip, Winds (1-4mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 39.2' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 20, 2014 **Surface Elev.:** 99.96' (Site Datum)
Date Completed: February 20, 2014 **Depth Elev.:** 60.76' (Site Datum)

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
					BrGr Cy\$; no odor; occ. mtd; mod. stiff; moist (ML).	
			5		BrGr Cy\$ to \$&C; no odor; mod. stiff; moist (ML/CL).	
			10		BrGr C&\$; no odor; mod. stiff; low to mod. plasticity; moist (ML/CL).	
			15		BrGr-Gr \$&C to Cy\$; no odor; mod. stiff; occ.vvd; low to mod. plasticity; moist (ML/CL).	
			20		Gr Cy\$; no odor; mod. stiff; occ.vvd; low to mod. plasticity; moist (ML/CL).	
			25		(GLACIOLACUSTRINE SILT AND CLAY)	



BORING LOG

Boring No. PZ-14-6

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: See page 1 of 2 **Checked By:** Peter Kelleher, P.E.

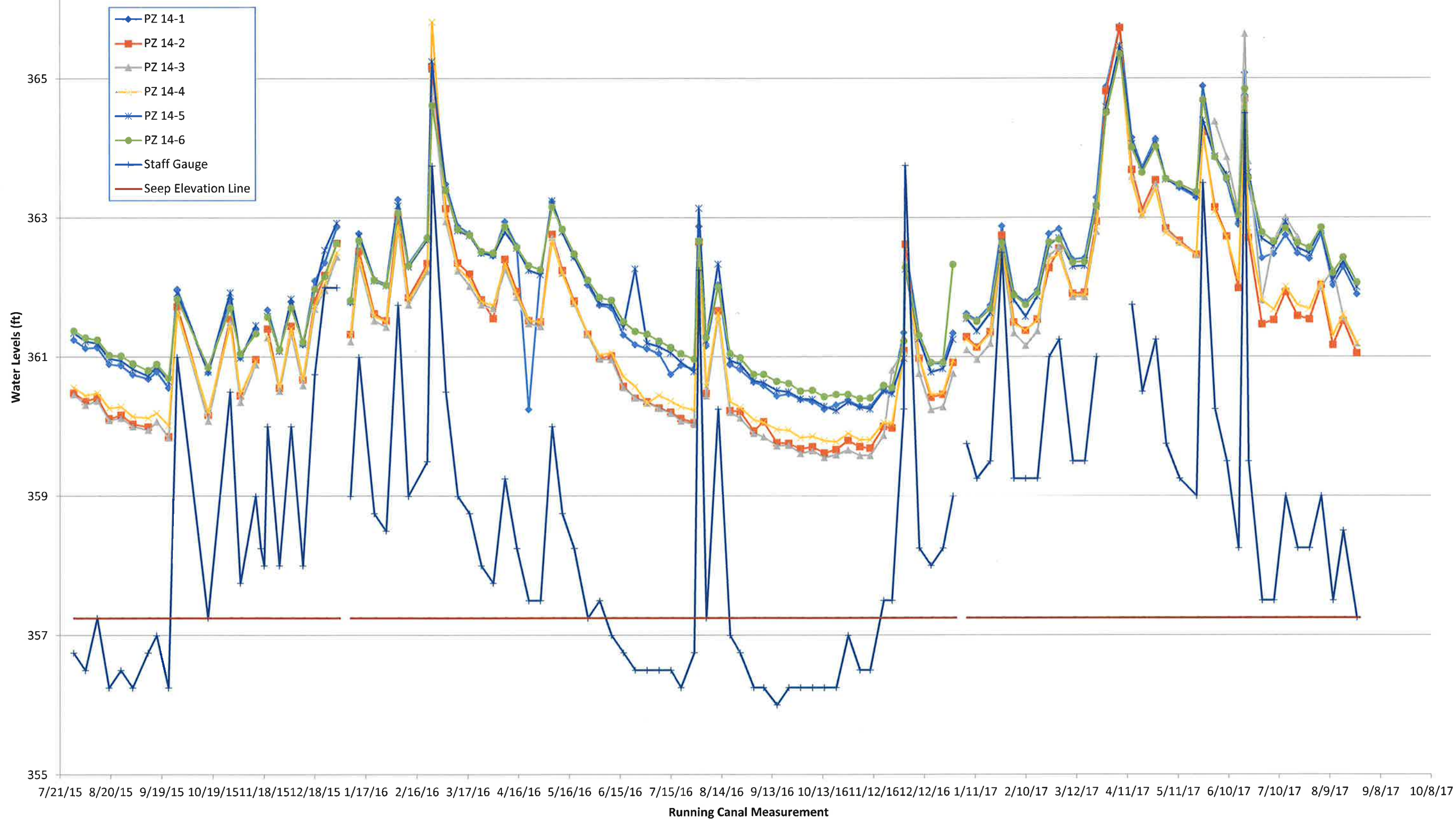
Drilling Co.: Zebra Environmental Corp. **Depth:** 39.2'bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 20, 2014 **Surface Elev.:** 99.96' (Site Datum)
Date Completed: February 20, 2014 **Depth/Datum:** 60.76' (Site Datum)

Depth	Sample No.	Blow Counts	Graphic Log 1"=5'	Unified Soil Classification	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill)	COMMENTS
			30		Gr Cy\$; no odor; soft to mod. stiff; occ. to freq. vvd (partings = 0.03 - 0.05'); mod. plasticity; moist (ML/CL).	Depth to Groundwater = 27.27' bgs (March 18, 2014) 1¼" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 34.2 -39.2'bgs.
					Gr Cy\$; no odor; soft to mod. stiff; massive; low plasticity; moist to wet (ML).	
			35		(GLACIOLACUSTRINE SILT AND CLAY) 33.85'	
					Gr-DkGrfSl(-), Cy\$; no odor; med. dense to dense; wet (SM/ML)	
			40		(GLACIOLACUSTRINE SAND) 39.2'	
			45		Boring terminated at 39.2 feet below ground surface (bgs).	
			50			

APPENDIX B

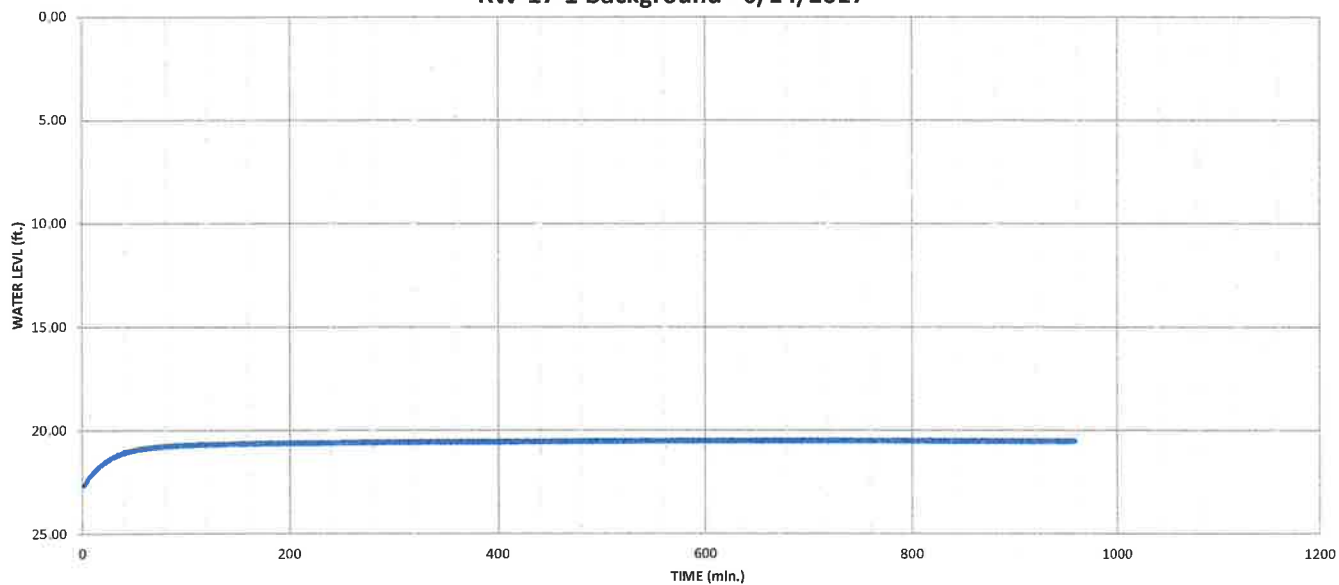
STAFF GAUGE AND MONITORING WELL MEASUREMENT DATA

2015-Current OCLF Staff Gauge & Monitoring Well Inspection Data



APPENDIX C
BACKGROUND MONITORING DATA

RW-17-1 Background - 6/14/2017



Report Date: 6/16/2017 11:36
Report User Name: spauldingj
Report Computer Name: LAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0

Log File Properties
File Name: RW-17-1_2017-06-15_07-41-19-593.wsl
Create Date: 6/15/2017 7:41

Device Properties
Device: Level TROLL 700
Site: Orange County Landfill
Device Name: 477224
Serial Number: 3.03
Firmware Version: 5
Hardware Version: 1
Device Address: 19200
Device Comm Cfg: 0
Used Memory: 4
Used Battery: 4

Even 1

Log Configuration

Log Name	RW-17-1
Created By	Spauldingj
Computer Name	LAPTOP04
Application	WinSitu.exe
Application Version	5.6.25.0
Create Date	6/14/2017 3:42:16 PM Eastern Daylight Time
Log Setup Time Zone	Eastern Daylight Time
Notes Size(bytes)	4096
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop Time	No Stop Time
Type	Linear
Interval	Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set first logged value to offset
Level Reference Offset:	22.65 (ft)

Other Log Settings

Depth of Probe: -0.0198324 (ft)
Head Pressure: -0.00858927 (PSI)
Temperature: 35.8072 (C)

Log Notes:

Date and Time Note

6/14/2017 15:42 Used Battery: 4% Used Memory: 1% User Name: SpauldingJ
6/14/2017 15:42 Manual Start Command
6/15/2017 7:40 Log Download - Used Battery: 4% Used Memory: 1% User Name: SpauldingJ

Log Data: Record Count 959

Sensors 1

477224

Time Zone: Eastern Daylight Time

Pressure/Temp 15 PSIG (11m/35ft)

Date and Time	Elapsed Time Seconds	Sensor: Pres(G) 35ft SN#: 477224		Sensor: Pres(G) 35ft SN#: 477224		Sensor: Pres(G) 35ft SN#: 477224	
		Pressure (PSI)	Calculations	Water Level (ft.)	Level Depth To Water (ft)	Temperature (C)	
6/14/2017 15:42	0	-0.008			22.65	35.858	
6/14/2017 15:43	60	1.544			19.068	35.533	
6/14/2017 15:44	120	5.156	11.90	14.86	22.65	29.007	
6/14/2017 15:45	180	5.182	11.96	14.92	22.59	24.428	
6/14/2017 15:46	240	5.214	12.04	14.99	22.52	21.494	
6/14/2017 15:47	300	5.247	12.11	15.07	22.44	19.564	
6/14/2017 15:48	360	5.278	12.19	15.14	22.37	18.255	
6/14/2017 15:49	420	5.308	12.26	15.21	22.30	17.321	
6/14/2017 15:50	480	5.338	12.32	15.28	22.23	16.662	
6/14/2017 15:51	540	5.363	12.38	15.34	22.17	16.196	
6/14/2017 15:52	600	5.391	12.45	15.40	22.11	15.849	
6/14/2017 15:53	660	5.415	12.50	15.46	22.05	15.558	
6/14/2017 15:54	720	5.44	12.56	15.52	21.99	15.364	
6/14/2017 15:55	780	5.463	12.61	15.57	21.94	15.177	
6/14/2017 15:56	840	5.483	12.66	15.62	21.89	15.075	
6/14/2017 15:57	900	5.507	12.72	15.67	21.84	14.977	
6/14/2017 15:58	960	5.525	12.76	15.71	21.80	14.92	
6/14/2017 15:59	1020	5.545	12.80	15.76	21.75	14.855	
6/14/2017 16:00	1080	5.564	12.85	15.80	21.71	14.824	
6/14/2017 16:01	1140	5.583	12.89	15.85	21.66	14.762	
6/14/2017 16:02	1200	5.598	12.93	15.88	21.63	14.735	

6/14/2017 16:03	1260	21	5.615	12.96	15.92	21.59	9.667	14.724
6/14/2017 16:04	1320	22	5.632	13.00	15.96	21.55	9.629	14.685
6/14/2017 16:05	1380	23	5.646	13.04	15.99	21.52	9.595	14.702
6/14/2017 16:06	1440	24	5.663	13.08	16.03	21.48	9.558	14.681
6/14/2017 16:07	1500	25	5.677	13.11	16.06	21.45	9.525	14.675
6/14/2017 16:08	1560	26	5.687	13.13	16.09	21.42	9.501	14.653
6/14/2017 16:09	1620	27	5.701	13.16	16.12	21.39	9.47	14.63
6/14/2017 16:10	1680	28	5.713	13.19	16.15	21.36	9.441	14.635
6/14/2017 16:11	1740	29	5.725	13.22	16.17	21.34	9.414	14.626
6/14/2017 16:12	1800	30	5.736	13.24	16.20	21.31	9.387	14.639
6/14/2017 16:13	1860	31	5.746	13.27	16.22	21.29	9.365	14.614
6/14/2017 16:14	1920	32	5.758	13.29	16.25	21.26	9.338	14.646
6/14/2017 16:15	1980	33	5.768	13.32	16.27	21.24	9.313	14.632
6/14/2017 16:16	2040	34	5.775	13.33	16.29	21.22	9.298	14.635
6/14/2017 16:17	2100	35	5.785	13.36	16.31	21.20	9.276	14.627
6/14/2017 16:18	2160	36	5.793	13.38	16.33	21.18	9.256	14.635
6/14/2017 16:19	2220	37	5.801	13.39	16.35	21.16	9.237	14.632
6/14/2017 16:20	2280	38	5.812	13.42	16.37	21.14	9.213	14.624
6/14/2017 16:21	2340	39	5.818	13.43	16.39	21.12	9.2	14.621
6/14/2017 16:22	2400	40	5.826	13.45	16.41	21.10	9.18	14.606
6/14/2017 16:23	2460	41	5.834	13.47	16.43	21.08	9.162	14.616
6/14/2017 16:24	2520	42	5.839	13.48	16.44	21.07	9.151	14.624
6/14/2017 16:25	2580	43	5.845	13.50	16.45	21.06	9.136	14.618
6/14/2017 16:26	2640	44	5.853	13.51	16.47	21.04	9.119	14.612
6/14/2017 16:27	2700	45	5.857	13.52	16.48	21.03	9.108	14.628
6/14/2017 16:28	2760	46	5.865	13.54	16.50	21.01	9.09	14.596
6/14/2017 16:29	2820	47	5.871	13.56	16.51	21.00	9.077	14.602
6/14/2017 16:30	2880	48	5.874	13.56	16.52	20.99	9.07	14.601
6/14/2017 16:31	2940	49	5.882	13.58	16.54	20.97	9.051	14.621
6/14/2017 16:32	3000	50	5.886	13.59	16.55	20.96	9.042	14.606
6/14/2017 16:33	3060	51	5.889	13.60	16.55	20.96	9.035	14.613
6/14/2017 16:34	3120	52	5.893	13.61	16.56	20.95	9.026	14.61
6/14/2017 16:35	3180	53	5.898	13.62	16.57	20.94	9.014	14.607
6/14/2017 16:36	3240	54	5.904	13.63	16.59	20.92	9	14.61
6/14/2017 16:37	3300	55	5.906	13.64	16.59	20.92	8.996	14.614
6/14/2017 16:38	3360	56	5.911	13.65	16.60	20.91	8.984	14.616
6/14/2017 16:39	3420	57	5.916	13.66	16.61	20.90	8.973	14.623
6/14/2017 16:40	3480	58	5.92	13.67	16.62	20.89	8.962	14.597
6/14/2017 16:41	3540	59	5.921	13.67	16.63	20.88	8.96	14.603
6/14/2017 16:42	3600	60	5.926	13.68	16.64	20.87	8.95	14.621
6/14/2017 16:43	3660	61	5.928	13.69	16.64	20.87	8.945	14.584
6/14/2017 16:44	3720	62	5.933	13.70	16.65	20.86	8.932	14.593
6/14/2017 16:45	3780	63	5.936	13.71	16.66	20.85	8.927	14.578
6/14/2017 16:46	3840	64	5.935	13.70	16.66	20.85	8.928	14.611
6/14/2017 16:47	3900	65	5.94	13.71	16.67	20.84	8.916	14.584
6/14/2017 16:48	3960	66	5.942	13.72	16.67	20.84	8.911	14.597
6/14/2017 16:49	4020	67	5.944	13.72	16.68	20.83	8.908	14.61

6/14/2017 16:50	4080	68	5.948	13.73	16.69	20.82	8.899	14.598
6/14/2017 16:51	4140	69	5.949	13.74	16.69	20.82	8.896	14.594
6/14/2017 16:52	4200	70	5.953	13.74	16.70	20.81	8.887	14.606
6/14/2017 16:53	4260	71	5.953	13.74	16.70	20.81	8.887	14.629
6/14/2017 16:54	4320	72	5.956	13.75	16.71	20.80	8.881	14.608
6/14/2017 16:55	4380	73	5.959	13.76	16.71	20.80	8.872	14.599
6/14/2017 16:56	4440	74	5.96	13.76	16.72	20.79	8.87	14.613
6/14/2017 16:57	4500	75	5.963	13.77	16.72	20.79	8.865	14.609
6/14/2017 16:58	4560	76	5.964	13.77	16.73	20.78	8.862	14.594
6/14/2017 16:59	4620	77	5.965	13.77	16.73	20.78	8.859	14.593
6/14/2017 17:00	4680	78	5.967	13.78	16.73	20.78	8.855	14.64
6/14/2017 17:01	4740	79	5.971	13.79	16.74	20.77	8.845	14.616
6/14/2017 17:02	4800	80	5.973	13.79	16.75	20.76	8.841	14.625
6/14/2017 17:03	4860	81	5.975	13.80	16.75	20.76	8.837	14.599
6/14/2017 17:04	4920	82	5.976	13.80	16.75	20.76	8.833	14.603
6/14/2017 17:05	4980	83	5.977	13.80	16.76	20.75	8.832	14.605
6/14/2017 17:06	5040	84	5.977	13.80	16.76	20.75	8.831	14.603
6/14/2017 17:07	5100	85	5.979	13.80	16.76	20.75	8.828	14.592
6/14/2017 17:08	5160	86	5.982	13.81	16.77	20.74	8.821	14.578
6/14/2017 17:09	5220	87	5.98	13.81	16.76	20.75	8.825	14.586
6/14/2017 17:10	5280	88	5.984	13.82	16.77	20.74	8.815	14.594
6/14/2017 17:11	5340	89	5.986	13.82	16.78	20.73	8.811	14.575
6/14/2017 17:12	5400	90	5.987	13.82	16.78	20.73	8.809	14.588
6/14/2017 17:13	5460	91	5.988	13.83	16.78	20.73	8.807	14.585
6/14/2017 17:14	5520	92	5.989	13.83	16.78	20.73	8.804	14.566
6/14/2017 17:15	5580	93	5.99	13.83	16.79	20.72	8.801	14.575
6/14/2017 17:16	5640	94	5.989	13.83	16.78	20.73	8.803	14.55
6/14/2017 17:17	5700	95	5.991	13.83	16.79	20.72	8.799	14.586
6/14/2017 17:18	5760	96	5.991	13.83	16.79	20.72	8.798	14.563
6/14/2017 17:19	5820	97	5.991	13.83	16.79	20.72	8.798	14.568
6/14/2017 17:20	5880	98	5.994	13.84	16.79	20.72	8.792	14.558
6/14/2017 17:21	5940	99	5.995	13.84	16.80	20.71	8.79	14.553
6/14/2017 17:22	6000	100	5.996	13.84	16.80	20.71	8.788	14.551
6/14/2017 17:23	6060	101	5.996	13.84	16.80	20.71	8.788	14.579
6/14/2017 17:24	6120	102	5.996	13.84	16.80	20.71	8.787	14.57
6/14/2017 17:25	6180	103	5.996	13.84	16.80	20.71	8.787	14.567
6/14/2017 17:26	6240	104	5.999	13.85	16.81	20.70	8.782	14.567
6/14/2017 17:27	6300	105	5.999	13.85	16.81	20.70	8.781	14.571
6/14/2017 17:28	6360	106	5.998	13.85	16.80	20.71	8.782	14.556
6/14/2017 17:29	6420	107	5.999	13.85	16.81	20.70	8.78	14.545
6/14/2017 17:30	6480	108	6.002	13.86	16.81	20.70	8.775	14.572
6/14/2017 17:31	6540	109	6.002	13.86	16.81	20.70	8.774	14.526
6/14/2017 17:32	6600	110	6.003	13.86	16.82	20.69	8.771	14.559
6/14/2017 17:33	6660	111	6.003	13.86	16.82	20.69	8.771	14.59
6/14/2017 17:34	6720	112	6.004	13.86	16.82	20.69	8.77	14.575
6/14/2017 17:35	6780	113	6.005	13.86	16.82	20.69	8.767	14.585
6/14/2017 17:36	6840	114	6.004	13.86	16.82	20.69	8.77	14.572

6/14/2017 17:37	6900	115	6.006	13.87	16.82	20.69	8.765	14.567
6/14/2017 17:38	6960	116	6.007	13.87	16.82	20.69	8.763	14.583
6/14/2017 17:39	7020	117	6.005	13.86	16.82	20.69	8.767	14.588
6/14/2017 17:40	7080	118	6.009	13.87	16.83	20.68	8.759	14.587
6/14/2017 17:41	7140	119	6.007	13.87	16.82	20.69	8.762	14.553
6/14/2017 17:42	7200	120	6.008	13.87	16.83	20.68	8.76	14.597
6/14/2017 17:43	7260	121	6.009	13.87	16.83	20.68	8.757	14.564
6/14/2017 17:44	7320	122	6.01	13.88	16.83	20.68	8.756	14.578
6/14/2017 17:45	7380	123	6.01	13.88	16.83	20.68	8.756	14.555
6/14/2017 17:46	7440	124	6.012	13.88	16.84	20.67	8.751	14.568
6/14/2017 17:47	7500	125	6.012	13.88	16.84	20.67	8.75	14.588
6/14/2017 17:48	7560	126	6.011	13.88	16.83	20.68	8.754	14.553
6/14/2017 17:49	7620	127	6.014	13.89	16.84	20.67	8.747	14.576
6/14/2017 17:50	7680	128	6.014	13.89	16.84	20.67	8.747	14.564
6/14/2017 17:51	7740	129	6.015	13.89	16.84	20.67	8.744	14.553
6/14/2017 17:52	7800	130	6.014	13.89	16.84	20.67	8.747	14.567
6/14/2017 17:53	7860	131	6.015	13.89	16.84	20.67	8.744	14.553
6/14/2017 17:54	7920	132	6.014	13.89	16.84	20.67	8.746	14.553
6/14/2017 17:55	7980	133	6.017	13.89	16.85	20.66	8.74	14.563
6/14/2017 17:56	8040	134	6.016	13.89	16.85	20.66	8.742	14.537
6/14/2017 17:57	8100	135	6.016	13.89	16.85	20.66	8.741	14.54
6/14/2017 17:58	8160	136	6.017	13.89	16.85	20.66	8.739	14.535
6/14/2017 17:59	8220	137	6.017	13.89	16.85	20.66	8.739	14.521
6/14/2017 18:00	8280	138	6.017	13.89	16.85	20.66	8.739	14.553
6/14/2017 18:01	8340	139	6.019	13.90	16.85	20.66	8.735	14.536
6/14/2017 18:02	8400	140	6.017	13.89	16.85	20.66	8.74	14.553
6/14/2017 18:03	8460	141	6.019	13.90	16.85	20.66	8.735	14.557
6/14/2017 18:04	8520	142	6.02	13.90	16.85	20.66	8.733	14.524
6/14/2017 18:05	8580	143	6.021	13.90	16.86	20.65	8.73	14.547
6/14/2017 18:06	8640	144	6.02	13.90	16.85	20.66	8.732	14.543
6/14/2017 18:07	8700	145	6.021	13.90	16.86	20.65	8.73	14.55
6/14/2017 18:08	8760	146	6.021	13.90	16.86	20.65	8.734	14.551
6/14/2017 18:09	8820	147	6.019	13.90	16.85	20.66	8.731	14.566
6/14/2017 18:10	8880	148	6.021	13.90	16.86	20.65	8.73	14.532
6/14/2017 18:11	8940	149	6.02	13.90	16.85	20.66	8.733	14.533
6/14/2017 18:12	9000	150	6.022	13.90	16.86	20.65	8.728	14.547
6/14/2017 18:13	9060	151	6.022	13.90	16.86	20.65	8.728	14.551
6/14/2017 18:14	9120	152	6.022	13.90	16.86	20.65	8.727	14.545
6/14/2017 18:15	9180	153	6.021	13.90	16.86	20.65	8.731	14.552
6/14/2017 18:16	9240	154	6.025	13.91	16.87	20.64	8.722	14.524
6/14/2017 18:17	9300	155	6.024	13.91	16.86	20.65	8.724	14.547
6/14/2017 18:18	9360	156	6.024	13.91	16.86	20.65	8.724	14.531
6/14/2017 18:19	9420	157	6.024	13.91	16.86	20.65	8.724	14.534
6/14/2017 18:20	9480	158	6.026	13.91	16.87	20.64	8.719	14.547
6/14/2017 18:21	9540	159	6.026	13.91	16.87	20.64	8.719	14.517
6/14/2017 18:22	9600	160	6.025	13.91	16.87	20.64	8.721	14.522
6/14/2017 18:23	9660	161	6.025	13.91	16.87	20.64	8.722	14.548

6/14/2017 18:24	9720	162	6.027	13.92	16.87	20.64	8.717	14.548
6/14/2017 18:25	9780	163	6.026	13.91	16.87	20.64	8.719	14.528
6/14/2017 18:26	9840	164	6.027	13.92	16.87	20.64	8.716	14.533
6/14/2017 18:27	9900	165	6.025	13.91	16.87	20.64	8.721	14.521
6/14/2017 18:28	9960	166	6.026	13.91	16.87	20.64	8.717	14.559
6/14/2017 18:29	10020	167	6.026	13.91	16.87	20.64	8.718	14.537
6/14/2017 18:30	10080	168	6.028	13.92	16.87	20.64	8.713	14.543
6/14/2017 18:31	10140	169	6.027	13.92	16.87	20.64	8.716	14.526
6/14/2017 18:32	10200	170	6.025	13.91	16.87	20.64	8.72	14.562
6/14/2017 18:33	10260	171	6.027	13.92	16.87	20.64	8.717	14.545
6/14/2017 18:34	10320	172	6.028	13.92	16.87	20.64	8.714	14.541
6/14/2017 18:35	10380	173	6.029	13.92	16.88	20.63	8.712	14.535
6/14/2017 18:36	10440	174	6.029	13.92	16.88	20.63	8.711	14.572
6/14/2017 18:37	10500	175	6.029	13.92	16.88	20.63	8.712	14.54
6/14/2017 18:38	10560	176	6.028	13.92	16.87	20.64	8.713	14.529
6/14/2017 18:39	10620	177	6.03	13.92	16.88	20.63	8.71	14.552
6/14/2017 18:40	10680	178	6.03	13.92	16.88	20.63	8.708	14.544
6/14/2017 18:41	10740	179	6.029	13.92	16.88	20.63	8.711	14.514
6/14/2017 18:42	10800	180	6.031	13.92	16.88	20.63	8.707	14.528
6/14/2017 18:43	10860	181	6.032	13.93	16.88	20.63	8.706	14.531
6/14/2017 18:44	10920	182	6.032	13.93	16.88	20.63	8.705	14.537
6/14/2017 18:45	10980	183	6.031	13.92	16.88	20.63	8.706	14.521
6/14/2017 18:46	11040	184	6.032	13.93	16.88	20.63	8.704	14.518
6/14/2017 18:47	11100	185	6.032	13.93	16.88	20.63	8.705	14.524
6/14/2017 18:48	11160	186	6.033	13.93	16.88	20.63	8.703	14.519
6/14/2017 18:49	11220	187	6.032	13.93	16.88	20.63	8.705	14.534
6/14/2017 18:50	11280	188	6.034	13.93	16.89	20.62	8.699	14.534
6/14/2017 18:51	11340	189	6.033	13.93	16.88	20.63	8.701	14.552
6/14/2017 18:52	11400	190	6.034	13.93	16.89	20.62	8.699	14.546
6/14/2017 18:53	11460	191	6.034	13.93	16.89	20.62	8.699	14.551
6/14/2017 18:54	11520	192	6.034	13.93	16.89	20.62	8.701	14.526
6/14/2017 18:55	11580	193	6.031	13.92	16.88	20.63	8.706	14.513
6/14/2017 18:56	11640	194	6.035	13.93	16.89	20.62	8.697	14.522
6/14/2017 18:57	11700	195	6.035	13.93	16.89	20.62	8.699	14.516
6/14/2017 18:58	11760	196	6.035	13.93	16.89	20.62	8.698	14.509
6/14/2017 18:59	11820	197	6.035	13.93	16.89	20.62	8.698	14.532
6/14/2017 19:00	11880	198	6.036	13.94	16.89	20.62	8.695	14.504
6/14/2017 19:01	11940	199	6.036	13.94	16.89	20.62	8.695	14.516
6/14/2017 19:02	12000	200	6.037	13.94	16.89	20.62	8.694	14.527
6/14/2017 19:03	12060	201	6.036	13.94	16.89	20.62	8.695	14.524
6/14/2017 19:04	12120	202	6.036	13.94	16.89	20.62	8.696	14.521
6/14/2017 19:05	12180	203	6.037	13.94	16.89	20.62	8.693	14.517
6/14/2017 19:06	12240	204	6.036	13.94	16.89	20.62	8.696	14.512
6/14/2017 19:07	12300	205	6.036	13.94	16.89	20.62	8.695	14.532
6/14/2017 19:08	12360	206	6.037	13.94	16.89	20.62	8.694	14.513
6/14/2017 19:09	12420	207	6.036	13.94	16.89	20.62	8.695	14.505
6/14/2017 19:10	12480	208	6.038	13.94	16.90	20.61	8.691	14.498

6/14/2017 19:11	12540	209	6.039	13.94	16.90	20.61	8.687	14.508
6/14/2017 19:12	12600	210	6.037	13.94	16.89	20.62	8.693	14.531
6/14/2017 19:13	12660	211	6.038	13.94	16.90	20.61	8.69	14.494
6/14/2017 19:14	12720	212	6.038	13.94	16.90	20.61	8.691	14.513
6/14/2017 19:15	12780	213	6.038	13.94	16.90	20.61	8.691	14.538
6/14/2017 19:16	12840	214	6.038	13.94	16.90	20.61	8.691	14.503
6/14/2017 19:17	12900	215	6.04	13.95	16.90	20.61	8.687	14.524
6/14/2017 19:18	12960	216	6.04	13.95	16.90	20.61	8.687	14.527
6/14/2017 19:19	13020	217	6.039	13.94	16.90	20.61	8.688	14.543
6/14/2017 19:20	13080	218	6.04	13.95	16.90	20.61	8.686	14.513
6/14/2017 19:21	13140	219	6.04	13.95	16.90	20.61	8.685	14.512
6/14/2017 19:22	13200	220	6.042	13.95	16.91	20.60	8.682	14.511
6/14/2017 19:23	13260	221	6.042	13.95	16.91	20.60	8.681	14.5
6/14/2017 19:24	13320	222	6.042	13.95	16.91	20.60	8.682	14.525
6/14/2017 19:25	13380	223	6.041	13.95	16.90	20.61	8.683	14.507
6/14/2017 19:26	13440	224	6.041	13.95	16.90	20.61	8.684	14.527
6/14/2017 19:27	13500	225	6.04	13.95	16.90	20.61	8.686	14.52
6/14/2017 19:28	13560	226	6.042	13.95	16.91	20.60	8.682	14.488
6/14/2017 19:29	13620	227	6.042	13.95	16.91	20.60	8.682	14.513
6/14/2017 19:30	13680	228	6.044	13.95	16.91	20.60	8.678	14.525
6/14/2017 19:31	13740	229	6.041	13.95	16.90	20.61	8.684	14.497
6/14/2017 19:32	13800	230	6.043	13.95	16.91	20.60	8.679	14.516
6/14/2017 19:33	13860	231	6.041	13.95	16.90	20.61	8.683	14.507
6/14/2017 19:34	13920	232	6.041	13.95	16.90	20.61	8.683	14.512
6/14/2017 19:35	13980	233	6.043	13.95	16.91	20.60	8.68	14.508
6/14/2017 19:36	14040	234	6.044	13.95	16.91	20.60	8.676	14.515
6/14/2017 19:37	14100	235	6.045	13.96	16.91	20.60	8.674	14.52
6/14/2017 19:38	14160	236	6.044	13.95	16.91	20.60	8.677	14.504
6/14/2017 19:39	14220	237	6.045	13.96	16.91	20.60	8.675	14.499
6/14/2017 19:40	14280	238	6.045	13.96	16.91	20.60	8.674	14.493
6/14/2017 19:41	14340	239	6.046	13.96	16.92	20.59	8.672	14.513
6/14/2017 19:42	14400	240	6.046	13.96	16.92	20.59	8.673	14.513
6/14/2017 19:43	14460	241	6.046	13.96	16.92	20.59	8.672	14.521
6/14/2017 19:44	14520	242	6.046	13.96	16.92	20.59	8.673	14.516
6/14/2017 19:45	14580	243	6.046	13.96	16.92	20.59	8.673	14.507
6/14/2017 19:46	14640	244	6.045	13.96	16.91	20.60	8.674	14.507
6/14/2017 19:47	14700	245	6.045	13.96	16.91	20.60	8.675	14.518
6/14/2017 19:48	14760	246	6.048	13.96	16.92	20.59	8.667	14.534
6/14/2017 19:49	14820	247	6.046	13.96	16.92	20.59	8.671	14.532
6/14/2017 19:50	14880	248	6.046	13.96	16.92	20.59	8.673	14.506
6/14/2017 19:51	14940	249	6.049	13.97	16.92	20.59	8.665	14.514
6/14/2017 19:52	15000	250	6.048	13.96	16.92	20.59	8.668	14.493
6/14/2017 19:53	15060	251	6.048	13.96	16.92	20.59	8.668	14.509
6/14/2017 19:54	15120	252	6.048	13.96	16.92	20.59	8.667	14.515
6/14/2017 19:55	15180	253	6.05	13.97	16.92	20.59	8.664	14.498
6/14/2017 19:56	15240	254	6.048	13.96	16.92	20.59	8.668	14.504
6/14/2017 19:57	15300	255	6.05	13.97	16.92	20.59	8.663	14.511

6/14/2017 19:58	15360	256	6.048	13.96	16.92	20.59	8.668	14.497
6/14/2017 19:59	15420	257	6.048	13.96	16.92	20.59	8.667	14.505
6/14/2017 20:00	15480	258	6.05	13.97	16.92	20.59	8.664	14.502
6/14/2017 20:01	15540	259	6.048	13.96	16.92	20.59	8.667	14.486
6/14/2017 20:02	15600	260	6.049	13.97	16.92	20.59	8.665	14.494
6/14/2017 20:03	15660	261	6.05	13.97	16.92	20.59	8.662	14.501
6/14/2017 20:04	15720	262	6.052	13.97	16.93	20.58	8.66	14.505
6/14/2017 20:05	15780	263	6.05	13.97	16.92	20.59	8.664	14.513
6/14/2017 20:06	15840	264	6.051	13.97	16.93	20.58	8.661	14.51
6/14/2017 20:07	15900	265	6.049	13.97	16.92	20.59	8.664	14.523
6/14/2017 20:08	15960	266	6.049	13.97	16.92	20.59	8.664	14.513
6/14/2017 20:09	16020	267	6.052	13.97	16.93	20.58	8.66	14.499
6/14/2017 20:10	16080	268	6.051	13.97	16.93	20.58	8.66	14.507
6/14/2017 20:11	16140	269	6.052	13.97	16.93	20.58	8.658	14.493
6/14/2017 20:12	16200	270	6.053	13.98	16.93	20.58	8.655	14.505
6/14/2017 20:13	16260	271	6.052	13.97	16.93	20.58	8.658	14.513
6/14/2017 20:14	16320	272	6.052	13.97	16.93	20.58	8.658	14.499
6/14/2017 20:15	16380	273	6.052	13.97	16.93	20.58	8.658	14.499
6/14/2017 20:16	16440	274	6.053	13.98	16.93	20.58	8.656	14.502
6/14/2017 20:17	16500	275	6.053	13.98	16.93	20.58	8.657	14.49
6/14/2017 20:18	16560	276	6.053	13.98	16.93	20.58	8.655	14.493
6/14/2017 20:19	16620	277	6.053	13.98	16.93	20.58	8.657	14.509
6/14/2017 20:20	16680	278	6.052	13.97	16.93	20.58	8.658	14.488
6/14/2017 20:21	16740	279	6.054	13.98	16.93	20.58	8.653	14.48
6/14/2017 20:22	16800	280	6.052	13.97	16.93	20.58	8.659	14.49
6/14/2017 20:23	16860	281	6.053	13.98	16.93	20.58	8.655	14.505
6/14/2017 20:24	16920	282	6.054	13.98	16.93	20.58	8.654	14.484
6/14/2017 20:25	16980	283	6.053	13.98	16.93	20.58	8.657	14.507
6/14/2017 20:26	17040	284	6.054	13.98	16.93	20.58	8.653	14.476
6/14/2017 20:27	17100	285	6.053	13.98	16.93	20.58	8.657	14.482
6/14/2017 20:28	17160	286	6.055	13.98	16.94	20.57	8.651	14.497
6/14/2017 20:29	17220	287	6.055	13.98	16.94	20.57	8.651	14.511
6/14/2017 20:30	17280	288	6.055	13.98	16.94	20.57	8.651	14.49
6/14/2017 20:31	17340	289	6.054	13.98	16.93	20.58	8.654	14.517
6/14/2017 20:32	17400	290	6.056	13.98	16.94	20.57	8.649	14.496
6/14/2017 20:33	17460	291	6.056	13.98	16.94	20.57	8.649	14.478
6/14/2017 20:34	17520	292	6.054	13.98	16.93	20.58	8.653	14.502
6/14/2017 20:35	17580	293	6.058	13.99	16.94	20.57	8.646	14.481
6/14/2017 20:36	17640	294	6.056	13.98	16.94	20.57	8.65	14.472
6/14/2017 20:37	17700	295	6.056	13.98	16.94	20.57	8.649	14.489
6/14/2017 20:38	17760	296	6.057	13.99	16.94	20.57	8.647	14.488
6/14/2017 20:39	17820	297	6.057	13.99	16.94	20.57	8.646	14.499
6/14/2017 20:40	17880	298	6.056	13.98	16.94	20.57	8.649	14.499
6/14/2017 20:41	17940	299	6.057	13.99	16.94	20.57	8.647	14.482
6/14/2017 20:42	18000	300	6.055	13.98	16.94	20.57	8.651	14.495
6/14/2017 20:43	18060	301	6.057	13.99	16.94	20.57	8.647	14.51
6/14/2017 20:44	18120	302	6.057	13.99	16.94	20.57	8.647	14.486

6/14/2017 20:45	18180	303	6.056	13.98	16.94	20.57	8.649	14.521
6/14/2017 20:46	18240	304	6.057	13.99	16.94	20.57	8.646	14.474
6/14/2017 20:47	18300	305	6.057	13.99	16.94	20.57	8.647	14.475
6/14/2017 20:48	18360	306	6.057	13.99	16.94	20.57	8.646	14.49
6/14/2017 20:49	18420	307	6.057	13.99	16.94	20.57	8.646	14.487
6/14/2017 20:50	18480	308	6.057	13.99	16.94	20.57	8.647	14.477
6/14/2017 20:51	18540	309	6.058	13.99	16.94	20.57	8.644	14.456
6/14/2017 20:52	18600	310	6.056	13.98	16.94	20.57	8.65	14.469
6/14/2017 20:53	18660	311	6.058	13.99	16.94	20.57	8.645	14.459
6/14/2017 20:54	18720	312	6.059	13.99	16.95	20.56	8.643	14.475
6/14/2017 20:55	18780	313	6.061	13.99	16.95	20.56	8.638	14.51
6/14/2017 20:56	18840	314	6.058	13.99	16.94	20.57	8.644	14.483
6/14/2017 20:57	18900	315	6.06	13.99	16.95	20.56	8.64	14.497
6/14/2017 20:58	18960	316	6.059	13.99	16.95	20.56	8.642	14.475
6/14/2017 20:59	19020	317	6.06	13.99	16.95	20.56	8.64	14.479
6/14/2017 21:00	19080	318	6.059	13.99	16.95	20.56	8.641	14.483
6/14/2017 21:01	19140	319	6.06	13.99	16.95	20.56	8.64	14.468
6/14/2017 21:02	19200	320	6.058	13.99	16.94	20.57	8.644	14.48
6/14/2017 21:03	19260	321	6.061	13.99	16.95	20.56	8.639	14.499
6/14/2017 21:04	19320	322	6.061	13.99	16.95	20.56	8.637	14.458
6/14/2017 21:05	19380	323	6.061	13.99	16.95	20.56	8.637	14.464
6/14/2017 21:06	19440	324	6.06	13.99	16.95	20.56	8.639	14.473
6/14/2017 21:07	19500	325	6.059	13.99	16.95	20.56	8.641	14.463
6/14/2017 21:08	19560	326	6.063	14.00	16.95	20.56	8.633	14.452
6/14/2017 21:09	19620	327	6.061	13.99	16.95	20.56	8.639	14.482
6/14/2017 21:10	19680	328	6.062	14.00	16.95	20.56	8.636	14.466
6/14/2017 21:11	19740	329	6.062	14.00	16.95	20.56	8.636	14.472
6/14/2017 21:12	19800	330	6.059	13.99	16.95	20.56	8.642	14.47
6/14/2017 21:13	19860	331	6.061	13.99	16.95	20.56	8.637	14.469
6/14/2017 21:14	19920	332	6.062	14.00	16.95	20.56	8.636	14.467
6/14/2017 21:15	19980	333	6.06	13.99	16.95	20.56	8.639	14.454
6/14/2017 21:16	20040	334	6.061	13.99	16.95	20.56	8.637	14.471
6/14/2017 21:17	20100	335	6.062	14.00	16.95	20.56	8.636	14.467
6/14/2017 21:18	20160	336	6.061	13.99	16.95	20.56	8.638	14.466
6/14/2017 21:19	20220	337	6.064	14.00	16.96	20.55	8.632	14.461
6/14/2017 21:20	20280	338	6.062	14.00	16.95	20.56	8.635	14.445
6/14/2017 21:21	20340	339	6.062	14.00	16.95	20.56	8.636	14.46
6/14/2017 21:22	20400	340	6.064	14.00	16.96	20.55	8.631	14.479
6/14/2017 21:23	20460	341	6.062	14.00	16.95	20.56	8.634	14.48
6/14/2017 21:24	20520	342	6.063	14.00	16.95	20.56	8.632	14.461
6/14/2017 21:25	20580	343	6.064	14.00	16.96	20.55	8.63	14.464
6/14/2017 21:26	20640	344	6.064	14.00	16.96	20.55	8.63	14.458
6/14/2017 21:27	20700	345	6.063	14.00	16.95	20.56	8.632	14.466
6/14/2017 21:28	20760	346	6.062	14.00	16.95	20.56	8.634	14.465
6/14/2017 21:29	20820	347	6.065	14.00	16.96	20.55	8.629	14.482
6/14/2017 21:30	20880	348	6.063	14.00	16.95	20.56	8.633	14.494
6/14/2017 21:31	20940	349	6.063	14.00	16.95	20.56	8.634	14.494

6/14/2017 21:32	21000	350	6.064	14.00	16.96	20.55	8.63	14.469
6/14/2017 21:33	21060	351	6.064	14.00	16.96	20.55	8.632	14.472
6/14/2017 21:34	21120	352	6.064	14.00	16.96	20.55	8.631	14.485
6/14/2017 21:35	21180	353	6.067	14.01	16.96	20.55	8.625	14.468
6/14/2017 21:36	21240	354	6.065	14.00	16.96	20.55	8.629	14.472
6/14/2017 21:37	21300	355	6.063	14.00	16.95	20.56	8.632	14.474
6/14/2017 21:38	21360	356	6.064	14.00	16.96	20.55	8.631	14.461
6/14/2017 21:39	21420	357	6.064	14.00	16.96	20.55	8.63	14.459
6/14/2017 21:40	21480	358	6.067	14.01	16.96	20.55	8.624	14.435
6/14/2017 21:41	21540	359	6.066	14.01	16.96	20.55	8.625	14.466
6/14/2017 21:42	21600	360	6.064	14.00	16.96	20.55	8.63	14.455
6/14/2017 21:43	21660	361	6.063	14.00	16.95	20.56	8.633	14.441
6/14/2017 21:44	21720	362	6.066	14.01	16.96	20.55	8.626	14.461
6/14/2017 21:45	21780	363	6.065	14.00	16.96	20.55	8.629	14.463
6/14/2017 21:46	21840	364	6.064	14.00	16.96	20.55	8.63	14.451
6/14/2017 21:47	21900	365	6.066	14.01	16.96	20.55	8.627	14.462
6/14/2017 21:48	21960	366	6.067	14.01	16.96	20.55	8.624	14.456
6/14/2017 21:49	22020	367	6.064	14.00	16.96	20.55	8.63	14.459
6/14/2017 21:50	22080	368	6.066	14.01	16.96	20.55	8.626	14.459
6/14/2017 21:51	22140	369	6.067	14.01	16.96	20.55	8.623	14.449
6/14/2017 21:52	22200	370	6.066	14.01	16.96	20.55	8.626	14.447
6/14/2017 21:53	22260	371	6.066	14.01	16.96	20.55	8.627	14.448
6/14/2017 21:54	22320	372	6.066	14.01	16.96	20.55	8.625	14.449
6/14/2017 21:55	22380	373	6.066	14.01	16.96	20.55	8.627	14.442
6/14/2017 21:56	22440	374	6.069	14.01	16.97	20.54	8.62	14.45
6/14/2017 21:57	22500	375	6.068	14.01	16.97	20.54	8.622	14.451
6/14/2017 21:58	22560	376	6.065	14.00	16.96	20.55	8.628	14.432
6/14/2017 21:59	22620	377	6.066	14.01	16.96	20.55	8.625	14.443
6/14/2017 22:00	22680	378	6.066	14.01	16.96	20.55	8.627	14.442
6/14/2017 22:01	22740	379	6.066	14.01	16.96	20.55	8.626	14.441
6/14/2017 22:02	22800	380	6.066	14.01	16.96	20.55	8.627	14.44
6/14/2017 22:03	22860	381	6.066	14.01	16.96	20.55	8.626	14.442
6/14/2017 22:04	22920	382	6.065	14.00	16.96	20.55	8.629	14.434
6/14/2017 22:05	22980	383	6.066	14.01	16.96	20.55	8.626	14.459
6/14/2017 22:06	23040	384	6.067	14.01	16.96	20.55	8.624	14.438
6/14/2017 22:07	23100	385	6.067	14.01	16.96	20.55	8.624	14.424
6/14/2017 22:08	23160	386	6.066	14.01	16.96	20.55	8.627	14.451
6/14/2017 22:09	23220	387	6.068	14.01	16.97	20.54	8.622	14.472
6/14/2017 22:10	23280	388	6.066	14.01	16.96	20.55	8.625	14.437
6/14/2017 22:11	23340	389	6.068	14.01	16.97	20.54	8.621	14.429
6/14/2017 22:12	23400	390	6.067	14.01	16.96	20.55	8.624	14.419
6/14/2017 22:13	23460	391	6.069	14.01	16.97	20.54	8.618	14.446
6/14/2017 22:14	23520	392	6.067	14.01	16.96	20.55	8.624	14.432
6/14/2017 22:15	23580	393	6.067	14.01	16.96	20.55	8.624	14.453
6/14/2017 22:16	23640	394	6.069	14.01	16.97	20.54	8.62	14.429
6/14/2017 22:17	23700	395	6.07	14.02	16.97	20.54	8.618	14.446
6/14/2017 22:18	23760	396	6.066	14.01	16.96	20.55	8.625	14.457

6/14/2017 22:19	23820	397	6.067	14.01	16.96	20.55	8.625	14.415
6/14/2017 22:20	23880	398	6.068	14.01	16.97	20.54	8.621	14.44
6/14/2017 22:21	23940	399	6.069	14.01	16.97	20.54	8.62	14.442
6/14/2017 22:22	24000	400	6.069	14.01	16.97	20.54	8.619	14.437
6/14/2017 22:23	24060	401	6.067	14.01	16.96	20.55	8.623	14.44
6/14/2017 22:24	24120	402	6.069	14.01	16.97	20.54	8.619	14.44
6/14/2017 22:25	24180	403	6.069	14.01	16.97	20.54	8.619	14.444
6/14/2017 22:26	24240	404	6.068	14.01	16.97	20.54	8.621	14.453
6/14/2017 22:27	24300	405	6.07	14.02	16.97	20.54	8.616	14.434
6/14/2017 22:28	24360	406	6.067	14.01	16.96	20.55	8.623	14.432
6/14/2017 22:29	24420	407	6.071	14.02	16.97	20.54	8.615	14.44
6/14/2017 22:30	24480	408	6.07	14.02	16.97	20.54	8.617	14.471
6/14/2017 22:31	24540	409	6.07	14.02	16.97	20.54	8.616	14.441
6/14/2017 22:32	24600	410	6.071	14.02	16.97	20.54	8.616	14.424
6/14/2017 22:33	24660	411	6.068	14.01	16.97	20.54	8.621	14.429
6/14/2017 22:34	24720	412	6.069	14.01	16.97	20.54	8.618	14.451
6/14/2017 22:35	24780	413	6.069	14.01	16.97	20.54	8.619	14.426
6/14/2017 22:36	24840	414	6.071	14.02	16.97	20.54	8.614	14.429
6/14/2017 22:37	24900	415	6.069	14.01	16.97	20.54	8.619	14.429
6/14/2017 22:38	24960	416	6.071	14.02	16.97	20.54	8.614	14.421
6/14/2017 22:39	25020	417	6.071	14.02	16.97	20.54	8.616	14.452
6/14/2017 22:40	25080	418	6.069	14.01	16.97	20.54	8.618	14.427
6/14/2017 22:41	25140	419	6.071	14.02	16.97	20.54	8.615	14.413
6/14/2017 22:42	25200	420	6.07	14.02	16.97	20.54	8.618	14.432
6/14/2017 22:43	25260	421	6.07	14.02	16.97	20.54	8.616	14.436
6/14/2017 22:44	25320	422	6.07	14.02	16.97	20.54	8.617	14.415
6/14/2017 22:45	25380	423	6.073	14.02	16.98	20.53	8.611	14.429
6/14/2017 22:46	25440	424	6.073	14.02	16.98	20.53	8.611	14.428
6/14/2017 22:47	25500	425	6.073	14.02	16.98	20.54	8.615	14.443
6/14/2017 22:48	25560	426	6.071	14.02	16.97	20.54	8.613	14.421
6/14/2017 22:49	25620	427	6.071	14.02	16.97	20.53	8.612	14.435
6/14/2017 22:50	25680	428	6.072	14.02	16.98	20.53	8.612	14.444
6/14/2017 22:51	25740	429	6.072	14.02	16.98	20.54	8.615	14.46
6/14/2017 22:52	25800	430	6.071	14.02	16.97	20.54	8.618	14.429
6/14/2017 22:53	25860	431	6.069	14.01	16.97	20.54	8.614	14.44
6/14/2017 22:54	25920	432	6.071	14.02	16.97	20.53	8.61	14.435
6/14/2017 22:55	25980	433	6.073	14.02	16.98	20.53	8.611	14.411
6/14/2017 22:56	26040	434	6.073	14.02	16.98	20.54	8.616	14.426
6/14/2017 22:57	26100	435	6.07	14.02	16.97	20.53	8.611	14.421
6/14/2017 22:58	26160	436	6.073	14.02	16.98	20.53	8.612	14.442
6/14/2017 22:59	26220	437	6.072	14.02	16.98	20.53	8.609	14.426
6/14/2017 23:00	26280	438	6.074	14.02	16.98	20.54	8.615	14.427
6/14/2017 23:01	26340	439	6.071	14.02	16.97	20.53	8.61	14.424
6/14/2017 23:02	26400	440	6.073	14.02	16.98	20.53	8.606	14.423
6/14/2017 23:03	26460	441	6.075	14.03	16.98	20.53	8.61	14.457
6/14/2017 23:04	26520	442	6.073	14.02	16.98	20.53	8.612	14.425
6/14/2017 23:05	26580	443	6.072	14.02	16.98	20.53		

6/14/2017 23:06	26640	444	6.074	14.02	16.98	20.53	8.608	14.445
6/14/2017 23:07	26700	445	6.076	14.03	16.98	20.53	8.604	14.421
6/14/2017 23:08	26760	446	6.073	14.02	16.98	20.53	8.61	14.419
6/14/2017 23:09	26820	447	6.074	14.02	16.98	20.53	8.608	14.453
6/14/2017 23:10	26880	448	6.073	14.02	16.98	20.53	8.609	14.415
6/14/2017 23:11	26940	449	6.073	14.02	16.98	20.53	8.611	14.43
6/14/2017 23:12	27000	450	6.074	14.02	16.98	20.53	8.608	14.411
6/14/2017 23:13	27060	451	6.075	14.03	16.98	20.53	8.606	14.418
6/14/2017 23:14	27120	452	6.075	14.03	16.98	20.53	8.606	14.44
6/14/2017 23:15	27180	453	6.074	14.02	16.98	20.53	8.608	14.399
6/14/2017 23:16	27240	454	6.073	14.03	16.98	20.53	8.61	14.432
6/14/2017 23:17	27300	455	6.076	14.03	16.98	20.53	8.604	14.417
6/14/2017 23:18	27360	456	6.074	14.02	16.98	20.53	8.608	14.43
6/14/2017 23:19	27420	457	6.076	14.03	16.98	20.53	8.604	14.413
6/14/2017 23:20	27480	458	6.075	14.03	16.98	20.53	8.605	14.419
6/14/2017 23:21	27540	459	6.075	14.03	16.98	20.53	8.605	14.422
6/14/2017 23:22	27600	460	6.075	14.03	16.98	20.53	8.605	14.41
6/14/2017 23:23	27660	461	6.076	14.03	16.98	20.53	8.603	14.431
6/14/2017 23:24	27720	462	6.076	14.03	16.98	20.53	8.602	14.413
6/14/2017 23:25	27780	463	6.075	14.03	16.98	20.53	8.606	14.402
6/14/2017 23:26	27840	464	6.076	14.03	16.98	20.53	8.602	14.404
6/14/2017 23:27	27900	465	6.076	14.03	16.98	20.53	8.605	14.398
6/14/2017 23:28	27960	466	6.075	14.03	16.98	20.53	8.605	14.427
6/14/2017 23:29	28020	467	6.076	14.03	16.98	20.53	8.603	14.419
6/14/2017 23:30	28080	468	6.075	14.03	16.98	20.53	8.606	14.414
6/14/2017 23:31	28140	469	6.074	14.02	16.98	20.53	8.607	14.415
6/14/2017 23:32	28200	470	6.077	14.03	16.99	20.52	8.601	14.433
6/14/2017 23:33	28260	471	6.077	14.03	16.99	20.52	8.601	14.416
6/14/2017 23:34	28320	472	6.077	14.03	16.99	20.52	8.6	14.428
6/14/2017 23:35	28380	473	6.077	14.03	16.99	20.52	8.6	14.394
6/14/2017 23:36	28440	474	6.076	14.03	16.98	20.53	8.602	14.421
6/14/2017 23:37	28500	475	6.078	14.03	16.99	20.52	8.598	14.421
6/14/2017 23:38	28560	476	6.077	14.03	16.99	20.52	8.6	14.407
6/14/2017 23:39	28620	477	6.078	14.03	16.99	20.52	8.599	14.404
6/14/2017 23:40	28680	478	6.077	14.03	16.99	20.52	8.602	14.412
6/14/2017 23:41	28740	479	6.078	14.03	16.99	20.52	8.598	14.414
6/14/2017 23:42	28800	480	6.079	14.04	16.99	20.52	8.596	14.423
6/14/2017 23:43	28860	481	6.077	14.03	16.99	20.52	8.6	14.418
6/14/2017 23:44	28920	482	6.079	14.04	16.99	20.52	8.597	14.428
6/14/2017 23:45	28980	483	6.079	14.04	16.99	20.52	8.596	14.406
6/14/2017 23:46	29040	484	6.078	14.03	16.99	20.52	8.598	14.407
6/14/2017 23:47	29100	485	6.077	14.03	16.99	20.52	8.601	14.386
6/14/2017 23:48	29160	486	6.079	14.04	16.99	20.52	8.595	14.428
6/14/2017 23:49	29220	487	6.081	14.04	17.00	20.51	8.591	14.422
6/14/2017 23:50	29280	488	6.078	14.03	16.99	20.52	8.599	14.436
6/14/2017 23:51	29340	489	6.078	14.03	16.99	20.52	8.598	14.408
6/14/2017 23:52	29400	490	6.078	14.03	16.99	20.52	8.599	14.382

6/14/2017 23:53	29460	491	6.078	14.03	16.99	20.52	8.598	14.399
6/14/2017 23:54	29520	492	6.079	14.04	16.99	20.52	8.595	14.391
6/14/2017 23:55	29580	493	6.079	14.04	16.99	20.52	8.595	14.391
6/14/2017 23:56	29640	494	6.081	14.04	17.00	20.51	8.591	14.419
6/14/2017 23:57	29700	495	6.079	14.04	16.99	20.52	8.597	14.394
6/14/2017 23:58	29760	496	6.08	14.04	16.99	20.52	8.594	14.39
6/14/2017 23:59	29820	497	6.08	14.04	16.99	20.52	8.594	14.397
6/15/2017 0:00	29880	498	6.079	14.04	16.99	20.52	8.595	14.391
6/15/2017 0:01	29940	499	6.079	14.04	16.99	20.52	8.597	14.389
6/15/2017 0:02	30000	500	6.08	14.04	16.99	20.52	8.594	14.392
6/15/2017 0:03	30060	501	6.082	14.04	17.00	20.51	8.589	14.402
6/15/2017 0:04	30120	502	6.079	14.04	16.99	20.52	8.596	14.393
6/15/2017 0:05	30180	503	6.08	14.04	16.99	20.52	8.593	14.405
6/15/2017 0:06	30240	504	6.081	14.04	17.00	20.51	8.593	14.423
6/15/2017 0:07	30300	505	6.079	14.04	16.99	20.52	8.595	14.42
6/15/2017 0:08	30360	506	6.081	14.04	17.00	20.51	8.592	14.4
6/15/2017 0:09	30420	507	6.082	14.04	17.00	20.51	8.589	14.415
6/15/2017 0:10	30480	508	6.082	14.04	17.00	20.51	8.59	14.412
6/15/2017 0:11	30540	509	6.081	14.04	17.00	20.51	8.591	14.396
6/15/2017 0:12	30600	510	6.081	14.04	17.00	20.51	8.591	14.407
6/15/2017 0:13	30660	511	6.082	14.04	17.00	20.51	8.591	14.394
6/15/2017 0:14	30720	512	6.082	14.05	17.00	20.51	8.587	14.387
6/15/2017 0:15	30780	513	6.082	14.04	17.00	20.51	8.588	14.415
6/15/2017 0:16	30840	514	6.082	14.04	17.00	20.51	8.59	14.412
6/15/2017 0:17	30900	515	6.08	14.04	16.99	20.52	8.593	14.41
6/15/2017 0:18	30960	516	6.081	14.04	17.00	20.51	8.591	14.372
6/15/2017 0:19	31020	517	6.083	14.05	17.00	20.51	8.587	14.372
6/15/2017 0:20	31080	518	6.081	14.04	17.00	20.51	8.592	14.387
6/15/2017 0:21	31140	519	6.08	14.04	16.99	20.52	8.593	14.398
6/15/2017 0:22	31200	520	6.081	14.04	17.00	20.51	8.591	14.407
6/15/2017 0:23	31260	521	6.081	14.04	17.00	20.51	8.592	14.425
6/15/2017 0:24	31320	522	6.082	14.04	17.00	20.51	8.588	14.418
6/15/2017 0:25	31380	523	6.082	14.04	17.00	20.51	8.589	14.394
6/15/2017 0:26	31440	524	6.083	14.05	17.00	20.51	8.587	14.418
6/15/2017 0:27	31500	525	6.083	14.05	17.00	20.51	8.586	14.404
6/15/2017 0:28	31560	526	6.082	14.04	17.00	20.51	8.59	14.412
6/15/2017 0:29	31620	527	6.083	14.05	17.00	20.51	8.587	14.398
6/15/2017 0:30	31680	528	6.082	14.04	17.00	20.51	8.588	14.412
6/15/2017 0:31	31740	529	6.082	14.04	17.00	20.51	8.588	14.376
6/15/2017 0:32	31800	530	6.083	14.05	17.00	20.51	8.586	14.42
6/15/2017 0:33	31860	531	6.082	14.04	17.00	20.51	8.589	14.384
6/15/2017 0:34	31920	532	6.082	14.04	17.00	20.51	8.59	14.384
6/15/2017 0:35	31980	533	6.084	14.05	17.00	20.51	8.584	14.406
6/15/2017 0:36	32040	534	6.084	14.05	17.00	20.51	8.585	14.383
6/15/2017 0:37	32100	535	6.083	14.05	17.00	20.51	8.587	14.399
6/15/2017 0:38	32160	536	6.085	14.05	17.01	20.50	8.583	14.398
6/15/2017 0:39	32220	537	6.083	14.05	17.00	20.51	8.586	14.39

6/15/2017 0:40	32280	538	6.084	14.05	17.00	20.51	8.585	14.396
6/15/2017 0:41	32340	539	6.086	14.05	17.01	20.50	8.58	14.402
6/15/2017 0:42	32400	540	6.085	14.05	17.01	20.50	8.582	14.385
6/15/2017 0:43	32460	541	6.083	14.05	17.00	20.51	8.587	14.381
6/15/2017 0:44	32520	542	6.083	14.05	17.00	20.51	8.587	14.365
6/15/2017 0:45	32580	543	6.086	14.05	17.01	20.50	8.581	14.389
6/15/2017 0:46	32640	544	6.083	14.05	17.00	20.51	8.587	14.395
6/15/2017 0:47	32700	545	6.086	14.05	17.01	20.50	8.581	14.381
6/15/2017 0:48	32760	546	6.084	14.05	17.00	20.51	8.584	14.372
6/15/2017 0:49	32820	547	6.085	14.05	17.01	20.50	8.583	14.391
6/15/2017 0:50	32880	548	6.085	14.05	17.01	20.50	8.583	14.383
6/15/2017 0:51	32940	549	6.083	14.05	17.00	20.51	8.588	14.39
6/15/2017 0:52	33000	550	6.084	14.05	17.00	20.51	8.583	14.386
6/15/2017 0:53	33060	551	6.085	14.05	17.01	20.50	8.583	14.381
6/15/2017 0:54	33120	552	6.086	14.05	17.01	20.50	8.58	14.38
6/15/2017 0:55	33180	553	6.085	14.05	17.01	20.50	8.582	14.407
6/15/2017 0:56	33240	554	6.085	14.05	17.01	20.50	8.581	14.373
6/15/2017 0:57	33300	555	6.086	14.05	17.01	20.50	8.584	14.379
6/15/2017 0:58	33360	556	6.084	14.05	17.00	20.51	8.582	14.387
6/15/2017 0:59	33420	557	6.085	14.05	17.01	20.50	8.585	14.371
6/15/2017 1:00	33480	558	6.084	14.05	17.00	20.51	8.583	14.369
6/15/2017 1:01	33540	559	6.085	14.05	17.01	20.50	8.582	14.378
6/15/2017 1:02	33600	560	6.085	14.05	17.01	20.50	8.581	14.363
6/15/2017 1:03	33660	561	6.086	14.05	17.01	20.50	8.578	14.366
6/15/2017 1:04	33720	562	6.087	14.05	17.01	20.50	8.581	14.334
6/15/2017 1:05	33780	563	6.085	14.05	17.01	20.50	8.583	14.38
6/15/2017 1:06	33840	564	6.085	14.05	17.01	20.50	8.582	14.377
6/15/2017 1:07	33900	565	6.085	14.05	17.01	20.50	8.582	14.383
6/15/2017 1:08	33960	566	6.085	14.05	17.01	20.50	8.581	14.362
6/15/2017 1:09	34020	567	6.086	14.05	17.00	20.50	8.583	14.375
6/15/2017 1:10	34080	568	6.084	14.05	17.01	20.51	8.582	14.384
6/15/2017 1:11	34140	569	6.085	14.05	17.01	20.50	8.575	14.38
6/15/2017 1:12	34200	570	6.088	14.06	17.01	20.50	8.578	14.353
6/15/2017 1:13	34260	571	6.087	14.05	17.01	20.50	8.577	14.348
6/15/2017 1:14	34320	572	6.087	14.05	17.01	20.50	8.578	14.355
6/15/2017 1:15	34380	573	6.087	14.05	17.01	20.50	8.577	14.399
6/15/2017 1:16	34440	574	6.087	14.05	17.01	20.50	8.578	14.375
6/15/2017 1:17	34500	575	6.087	14.05	17.01	20.50	8.581	14.369
6/15/2017 1:18	34560	576	6.086	14.05	17.01	20.50	8.58	14.37
6/15/2017 1:19	34620	577	6.086	14.05	17.01	20.50	8.58	14.364
6/15/2017 1:20	34680	578	6.086	14.05	17.01	20.50	8.581	14.367
6/15/2017 1:21	34740	579	6.086	14.05	17.01	20.50	8.575	14.372
6/15/2017 1:22	34800	580	6.088	14.06	17.01	20.50	8.58	14.371
6/15/2017 1:23	34860	581	6.086	14.05	17.01	20.50	8.578	14.366
6/15/2017 1:24	34920	582	6.087	14.05	17.01	20.50	8.58	14.384
6/15/2017 1:25	34980	583	6.086	14.05	17.01	20.50	8.575	14.356
6/15/2017 1:26	35040	584	6.088	14.06	17.01	20.50		

6/15/2017 1:27	35100	585	6.087	14.05	17.01	20.50	8.577	14.378
6/15/2017 1:28	35160	586	6.087	14.05	17.01	20.50	8.578	14.381
6/15/2017 1:29	35220	587	6.086	14.05	17.01	20.50	8.58	14.361
6/15/2017 1:30	35280	588	6.088	14.06	17.01	20.50	8.574	14.39
6/15/2017 1:31	35340	589	6.087	14.05	17.01	20.50	8.579	14.367
6/15/2017 1:32	35400	590	6.087	14.05	17.01	20.50	8.577	14.372
6/15/2017 1:33	35460	591	6.087	14.05	17.01	20.50	8.577	14.358
6/15/2017 1:34	35520	592	6.087	14.05	17.01	20.50	8.577	14.372
6/15/2017 1:35	35580	593	6.088	14.06	17.01	20.50	8.575	14.358
6/15/2017 1:36	35640	594	6.087	14.05	17.01	20.50	8.579	14.37
6/15/2017 1:37	35700	595	6.086	14.05	17.01	20.50	8.58	14.384
6/15/2017 1:38	35760	596	6.088	14.06	17.01	20.50	8.574	14.369
6/15/2017 1:39	35820	597	6.088	14.06	17.01	20.50	8.576	14.359
6/15/2017 1:40	35880	598	6.088	14.06	17.01	20.50	8.574	14.345
6/15/2017 1:41	35940	599	6.089	14.06	17.01	20.50	8.573	14.368
6/15/2017 1:42	36000	600	6.088	14.06	17.01	20.50	8.575	14.342
6/15/2017 1:43	36060	601	6.088	14.06	17.01	20.50	8.576	14.369
6/15/2017 1:44	36120	602	6.089	14.06	17.01	20.50	8.573	14.358
6/15/2017 1:45	36180	603	6.089	14.06	17.01	20.50	8.573	14.375
6/15/2017 1:46	36240	604	6.089	14.06	17.01	20.50	8.573	14.353
6/15/2017 1:47	36300	605	6.089	14.06	17.01	20.50	8.573	14.373
6/15/2017 1:48	36360	606	6.088	14.06	17.01	20.50	8.576	14.354
6/15/2017 1:49	36420	607	6.088	14.06	17.01	20.50	8.574	14.378
6/15/2017 1:50	36480	608	6.089	14.06	17.01	20.50	8.574	14.354
6/15/2017 1:51	36540	609	6.091	14.06	17.02	20.49	8.568	14.358
6/15/2017 1:52	36600	610	6.09	14.06	17.02	20.49	8.57	14.369
6/15/2017 1:53	36660	611	6.091	14.06	17.02	20.49	8.568	14.364
6/15/2017 1:54	36720	612	6.088	14.06	17.01	20.50	8.575	14.389
6/15/2017 1:55	36780	613	6.088	14.06	17.01	20.50	8.576	14.379
6/15/2017 1:56	36840	614	6.089	14.06	17.01	20.50	8.572	14.367
6/15/2017 1:57	36900	615	6.09	14.06	17.02	20.49	8.571	14.339
6/15/2017 1:58	36960	616	6.091	14.06	17.02	20.49	8.569	14.358
6/15/2017 1:59	37020	617	6.091	14.06	17.02	20.49	8.568	14.377
6/15/2017 2:00	37080	618	6.091	14.06	17.02	20.49	8.569	14.368
6/15/2017 2:01	37140	619	6.09	14.06	17.02	20.49	8.571	14.353
6/15/2017 2:02	37200	620	6.09	14.06	17.02	20.49	8.57	14.368
6/15/2017 2:03	37260	621	6.09	14.06	17.02	20.49	8.573	14.361
6/15/2017 2:04	37320	622	6.089	14.06	17.01	20.50	8.568	14.354
6/15/2017 2:05	37380	623	6.091	14.06	17.02	20.49	8.565	14.345
6/15/2017 2:06	37440	624	6.092	14.07	17.02	20.49	8.57	14.334
6/15/2017 2:07	37500	625	6.09	14.06	17.02	20.49	8.566	14.348
6/15/2017 2:08	37560	626	6.092	14.07	17.02	20.49	8.572	14.366
6/15/2017 2:09	37620	627	6.089	14.06	17.01	20.50	8.571	14.341
6/15/2017 2:10	37680	628	6.09	14.06	17.02	20.49	8.572	14.35
6/15/2017 2:11	37740	629	6.089	14.06	17.01	20.50	8.566	14.346
6/15/2017 2:12	37800	630	6.092	14.07	17.02	20.49	8.567	14.354
6/15/2017 2:13	37860	631	6.092	14.07	17.02	20.49		

6/15/2017 2:14	37920	632	6.091	14.06	17.02	20.49	8.569	14.344
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6/15/2017 2:16	38040	634	6.09	14.06	17.02	20.49	8.572	14.342
6/15/2017 2:17	38100	635	6.09	14.06	17.02	20.49	8.572	14.342
6/15/2017 2:18	38160	636	6.091	14.06	17.02	20.49	8.569	14.315
6/15/2017 2:19	38220	637	6.091	14.06	17.02	20.49	8.568	14.348
6/15/2017 2:20	38280	638	6.091	14.06	17.02	20.49	8.568	14.328
6/15/2017 2:21	38340	639	6.091	14.06	17.02	20.49	8.567	14.356
6/15/2017 2:22	38400	640	6.092	14.07	17.02	20.49	8.567	14.375
6/15/2017 2:23	38460	641	6.092	14.07	17.02	20.49	8.567	14.369
6/15/2017 2:24	38520	642	6.091	14.06	17.02	20.49	8.567	14.336
6/15/2017 2:25	38580	643	6.09	14.06	17.02	20.49	8.57	14.349
6/15/2017 2:26	38640	644	6.09	14.06	17.02	20.49	8.571	14.334
6/15/2017 2:27	38700	645	6.092	14.07	17.02	20.49	8.565	14.337
6/15/2017 2:28	38760	646	6.092	14.07	17.02	20.49	8.567	14.333
6/15/2017 2:29	38820	647	6.091	14.06	17.02	20.49	8.569	14.365
6/15/2017 2:30	38880	648	6.09	14.06	17.02	20.49	8.572	14.336
6/15/2017 2:31	38940	649	6.09	14.06	17.02	20.49	8.57	14.342
6/15/2017 2:32	39000	650	6.093	14.07	17.02	20.49	8.565	14.355
6/15/2017 2:33	39060	651	6.092	14.07	17.02	20.49	8.567	14.36
6/15/2017 2:34	39120	652	6.091	14.06	17.02	20.49	8.568	14.356
6/15/2017 2:35	39180	653	6.092	14.07	17.02	20.49	8.566	14.377
6/15/2017 2:36	39240	654	6.093	14.07	17.02	20.49	8.563	14.348
6/15/2017 2:37	39300	655	6.091	14.06	17.02	20.49	8.568	14.371
6/15/2017 2:38	39360	656	6.092	14.07	17.02	20.49	8.567	14.348
6/15/2017 2:39	39420	657	6.092	14.07	17.02	20.49	8.566	14.361
6/15/2017 2:40	39480	658	6.093	14.07	17.02	20.49	8.565	14.349
6/15/2017 2:41	39540	659	6.091	14.06	17.02	20.49	8.568	14.336
6/15/2017 2:42	39600	660	6.093	14.07	17.02	20.49	8.563	14.361
6/15/2017 2:43	39660	661	6.094	14.07	17.03	20.48	8.562	14.348
6/15/2017 2:44	39720	662	6.093	14.07	17.02	20.49	8.563	14.358
6/15/2017 2:45	39780	663	6.092	14.07	17.02	20.49	8.566	14.328
6/15/2017 2:46	39840	664	6.092	14.07	17.02	20.49	8.567	14.333
6/15/2017 2:47	39900	665	6.092	14.07	17.02	20.49	8.567	14.353
6/15/2017 2:48	39960	666	6.093	14.07	17.02	20.49	8.565	14.344
6/15/2017 2:49	40020	667	6.093	14.07	17.02	20.49	8.564	14.337
6/15/2017 2:50	40080	668	6.094	14.07	17.03	20.48	8.561	14.352
6/15/2017 2:51	40140	669	6.092	14.07	17.02	20.49	8.567	14.356
6/15/2017 2:52	40200	670	6.093	14.07	17.02	20.49	8.565	14.353
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6/15/2017 2:54	40320	672	6.094	14.07	17.03	20.48	8.56	14.345
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6/15/2017 2:56	40440	674	6.094	14.07	17.03	20.48	8.562	14.341
6/15/2017 2:57	40500	675	6.094	14.07	17.03	20.48	8.562	14.326
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6/15/2017 2:59	40620	677	6.092	14.07	17.02	20.49	8.566	14.336
6/15/2017 3:00	40680	678	6.093	14.07	17.02	20.49	8.563	14.332

6/15/2017 3:01	40740	679	6.092	14.07	17.02	20.49	8.565	14.334
6/15/2017 3:02	40800	680	6.092	14.07	17.02	20.49	8.566	14.346
6/15/2017 3:03	40860	681	6.093	14.07	17.02	20.49	8.563	14.353
6/15/2017 3:04	40920	682	6.093	14.07	17.02	20.49	8.563	14.337
6/15/2017 3:05	40980	683	6.092	14.07	17.02	20.49	8.567	14.33
6/15/2017 3:06	41040	684	6.093	14.07	17.02	20.49	8.563	14.345
6/15/2017 3:07	41100	685	6.093	14.07	17.02	20.49	8.564	14.33
6/15/2017 3:08	41160	686	6.092	14.07	17.02	20.49	8.566	14.339
6/15/2017 3:09	41220	687	6.093	14.07	17.02	20.49	8.563	14.335
6/15/2017 3:10	41280	688	6.093	14.07	17.02	20.49	8.563	14.329
6/15/2017 3:11	41340	689	6.092	14.07	17.02	20.49	8.567	14.342
6/15/2017 3:12	41400	690	6.093	14.07	17.02	20.49	8.565	14.331
6/15/2017 3:13	41460	691	6.092	14.07	17.02	20.49	8.566	14.334
6/15/2017 3:14	41520	692	6.092	14.07	17.02	20.49	8.567	14.329
6/15/2017 3:15	41580	693	6.094	14.07	17.03	20.48	8.562	14.328
6/15/2017 3:16	41640	694	6.091	14.06	17.02	20.49	8.567	14.329
6/15/2017 3:17	41700	695	6.093	14.07	17.02	20.49	8.563	14.329
6/15/2017 3:18	41760	696	6.092	14.07	17.02	20.49	8.565	14.347
6/15/2017 3:19	41820	697	6.093	14.07	17.02	20.49	8.563	14.35
6/15/2017 3:20	41880	698	6.091	14.06	17.02	20.49	8.568	14.338
6/15/2017 3:21	41940	699	6.092	14.07	17.02	20.49	8.565	14.334
6/15/2017 3:22	42000	700	6.093	14.07	17.02	20.49	8.564	14.337
6/15/2017 3:23	42060	701	6.094	14.07	17.03	20.48	8.561	14.331
6/15/2017 3:24	42120	702	6.094	14.07	17.03	20.48	8.561	14.318
6/15/2017 3:25	42180	703	6.09	14.06	17.02	20.49	8.57	14.327
6/15/2017 3:26	42240	704	6.094	14.07	17.03	20.48	8.562	14.312
6/15/2017 3:27	42300	705	6.093	14.07	17.02	20.49	8.564	14.329
6/15/2017 3:28	42360	706	6.093	14.07	17.02	20.49	8.564	14.342
6/15/2017 3:29	42420	707	6.092	14.07	17.02	20.49	8.565	14.345
6/15/2017 3:30	42480	708	6.093	14.07	17.02	20.49	8.563	14.313
6/15/2017 3:31	42540	709	6.094	14.07	17.03	20.48	8.562	14.293
6/15/2017 3:32	42600	710	6.093	14.07	17.02	20.49	8.563	14.33
6/15/2017 3:33	42660	711	6.094	14.07	17.03	20.48	8.562	14.334
6/15/2017 3:34	42720	712	6.092	14.07	17.02	20.49	8.567	14.31
6/15/2017 3:35	42780	713	6.092	14.07	17.02	20.49	8.566	14.318
6/15/2017 3:36	42840	714	6.093	14.07	17.02	20.49	8.564	14.306
6/15/2017 3:37	42900	715	6.091	14.06	17.02	20.49	8.568	14.342
6/15/2017 3:38	42960	716	6.093	14.07	17.02	20.49	8.564	14.316
6/15/2017 3:39	43020	717	6.093	14.07	17.02	20.49	8.563	14.329
6/15/2017 3:40	43080	718	6.092	14.07	17.02	20.49	8.565	14.309
6/15/2017 3:41	43140	719	6.091	14.06	17.02	20.49	8.568	14.33
6/15/2017 3:42	43200	720	6.094	14.07	17.03	20.48	8.561	14.32
6/15/2017 3:43	43260	721	6.092	14.07	17.02	20.49	8.565	14.323
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6/15/2017 3:45	43380	723	6.093	14.07	17.02	20.49	8.563	14.316
6/15/2017 3:46	43440	724	6.093	14.07	17.02	20.49	8.564	14.335
6/15/2017 3:47	43500	725	6.092	14.07	17.02	20.49	8.566	14.342

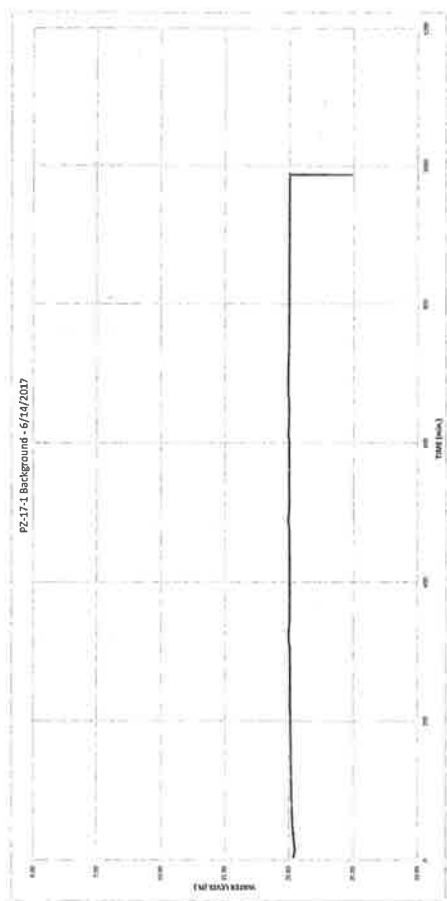
6/15/2017 3:48	43560	726	6.091	14.06	17.02	20.49	8.568	14.318
6/15/2017 3:49	43620	727	6.093	14.07	17.02	20.49	8.565	14.329
6/15/2017 3:50	43680	728	6.092	14.07	17.02	20.49	8.566	14.343
6/15/2017 3:51	43740	729	6.09	14.06	17.02	20.49	8.571	14.3
6/15/2017 3:52	43800	730	6.093	14.07	17.02	20.49	8.564	14.315
6/15/2017 3:53	43860	731	6.092	14.07	17.02	20.49	8.567	14.287
6/15/2017 3:54	43920	732	6.095	14.07	17.03	20.48	8.56	14.328
6/15/2017 3:55	43980	733	6.092	14.07	17.02	20.49	8.566	14.307
6/15/2017 3:56	44040	734	6.093	14.07	17.02	20.49	8.564	14.328
6/15/2017 3:57	44100	735	6.092	14.07	17.02	20.49	8.566	14.313
6/15/2017 3:58	44160	736	6.093	14.07	17.02	20.49	8.564	14.345
6/15/2017 3:59	44220	737	6.093	14.07	17.02	20.49	8.564	14.321
6/15/2017 4:00	44280	738	6.092	14.07	17.02	20.49	8.566	14.315
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6/15/2017 4:02	44400	740	6.092	14.07	17.02	20.49	8.566	14.331
6/15/2017 4:03	44460	741	6.093	14.07	17.02	20.49	8.565	14.32
6/15/2017 4:04	44520	742	6.093	14.07	17.02	20.49	8.564	14.307
6/15/2017 4:05	44580	743	6.093	14.07	17.02	20.49	8.563	14.315
6/15/2017 4:06	44640	744	6.092	14.07	17.02	20.49	8.566	14.329
6/15/2017 4:07	44700	745	6.091	14.06	17.02	20.49	8.568	14.312
6/15/2017 4:08	44760	746	6.091	14.06	17.02	20.49	8.568	14.311
6/15/2017 4:09	44820	747	6.092	14.07	17.02	20.49	8.567	14.312
6/15/2017 4:10	44880	748	6.092	14.07	17.02	20.49	8.567	14.324
6/15/2017 4:11	44940	749	6.092	14.07	17.02	20.49	8.567	14.32
6/15/2017 4:12	45000	750	6.091	14.06	17.02	20.49	8.568	14.32
6/15/2017 4:13	45060	751	6.09	14.06	17.02	20.49	8.571	14.331
6/15/2017 4:14	45120	752	6.091	14.06	17.02	20.49	8.568	14.315
6/15/2017 4:15	45180	753	6.093	14.07	17.02	20.49	8.564	14.322
6/15/2017 4:16	45240	754	6.091	14.06	17.02	20.49	8.568	14.307
6/15/2017 4:17	45300	755	6.091	14.06	17.02	20.49	8.567	14.31
6/15/2017 4:18	45360	756	6.091	14.06	17.02	20.49	8.569	14.323
6/15/2017 4:19	45420	757	6.092	14.07	17.02	20.49	8.565	14.309
6/15/2017 4:20	45480	758	6.092	14.07	17.02	20.49	8.567	14.332
6/15/2017 4:21	45540	759	6.092	14.07	17.02	20.49	8.567	14.308
6/15/2017 4:22	45600	760	6.09	14.06	17.02	20.49	8.571	14.307
6/15/2017 4:23	45660	761	6.091	14.06	17.02	20.49	8.568	14.342
6/15/2017 4:24	45720	762	6.091	14.06	17.02	20.49	8.569	14.307
6/15/2017 4:25	45780	763	6.092	14.07	17.02	20.49	8.565	14.315
6/15/2017 4:26	45840	764	6.091	14.06	17.02	20.49	8.568	14.323
6/15/2017 4:27	45900	765	6.09	14.06	17.02	20.49	8.57	14.324
6/15/2017 4:28	45960	766	6.09	14.06	17.02	20.49	8.571	14.31
6/15/2017 4:29	46020	767	6.093	14.07	17.02	20.49	8.565	14.326
6/15/2017 4:30	46080	768	6.091	14.06	17.02	20.49	8.569	14.317
6/15/2017 4:31	46140	769	6.093	14.07	17.02	20.49	8.564	14.322
6/15/2017 4:32	46200	770	6.092	14.07	17.02	20.49	8.567	14.317
6/15/2017 4:33	46260	771	6.091	14.06	17.02	20.49	8.568	14.315
6/15/2017 4:34	46320	772	6.09	14.06	17.02	20.49	8.572	14.312

6/15/2017 4:35	46380	773	6.091	14.06	17.02	20.49	8.567	14.331
6/15/2017 4:36	46440	774	6.092	14.07	17.02	20.49	8.565	14.297
6/15/2017 4:37	46500	775	6.091	14.06	17.02	20.49	8.569	14.308
6/15/2017 4:38	46560	776	6.091	14.06	17.02	20.49	8.569	14.295
6/15/2017 4:39	46620	777	6.09	14.06	17.02	20.49	8.57	14.291
6/15/2017 4:40	46680	778	6.09	14.06	17.02	20.49	8.571	14.307
6/15/2017 4:41	46740	779	6.092	14.07	17.02	20.49	8.567	14.29
6/15/2017 4:42	46800	780	6.091	14.06	17.02	20.49	8.567	14.292
6/15/2017 4:43	46860	781	6.092	14.07	17.02	20.49	8.566	14.295
6/15/2017 4:44	46920	782	6.091	14.06	17.02	20.49	8.569	14.298
6/15/2017 4:45	46980	783	6.092	14.07	17.02	20.49	8.567	14.285
6/15/2017 4:46	47040	784	6.092	14.07	17.02	20.49	8.566	14.285
6/15/2017 4:47	47100	785	6.09	14.06	17.02	20.49	8.57	14.311
6/15/2017 4:48	47160	786	6.092	14.07	17.02	20.49	8.566	14.319
6/15/2017 4:49	47220	787	6.091	14.06	17.02	20.49	8.568	14.292
6/15/2017 4:50	47280	788	6.092	14.07	17.02	20.49	8.567	14.31
6/15/2017 4:51	47340	789	6.09	14.06	17.02	20.49	8.571	14.315
6/15/2017 4:52	47400	790	6.09	14.06	17.02	20.49	8.57	14.318
6/15/2017 4:53	47460	791	6.092	14.07	17.02	20.49	8.565	14.317
6/15/2017 4:54	47520	792	6.09	14.06	17.02	20.49	8.571	14.315
6/15/2017 4:55	47580	793	6.09	14.06	17.02	20.49	8.571	14.303
6/15/2017 4:56	47640	794	6.087	14.05	17.01	20.50	8.577	14.326
6/15/2017 4:57	47700	795	6.091	14.06	17.02	20.49	8.569	14.328
6/15/2017 4:58	47760	796	6.09	14.06	17.02	20.49	8.571	14.305
6/15/2017 4:59	47820	797	6.09	14.06	17.02	20.49	8.57	14.275
6/15/2017 5:00	47880	798	6.09	14.06	17.02	20.49	8.572	14.311
6/15/2017 5:01	47940	799	6.09	14.06	17.02	20.49	8.571	14.309
6/15/2017 5:02	48000	800	6.089	14.06	17.01	20.50	8.574	14.3
6/15/2017 5:03	48060	801	6.09	14.06	17.02	20.49	8.57	14.304
6/15/2017 5:04	48120	802	6.09	14.06	17.02	20.49	8.572	14.323
6/15/2017 5:05	48180	803	6.088	14.06	17.01	20.50	8.575	14.289
6/15/2017 5:06	48240	804	6.091	14.06	17.02	20.49	8.569	14.289
6/15/2017 5:07	48300	805	6.087	14.05	17.01	20.50	8.577	14.28
6/15/2017 5:08	48360	806	6.088	14.06	17.01	20.50	8.575	14.313
6/15/2017 5:09	48420	807	6.09	14.06	17.02	20.49	8.571	14.317
6/15/2017 5:10	48480	808	6.09	14.06	17.02	20.49	8.572	14.315
6/15/2017 5:11	48540	809	6.089	14.06	17.01	20.50	8.574	14.283
6/15/2017 5:12	48600	810	6.091	14.06	17.02	20.49	8.569	14.294
6/15/2017 5:13	48660	811	6.089	14.06	17.01	20.50	8.572	14.3
6/15/2017 5:14	48720	812	6.089	14.06	17.01	20.50	8.573	14.297
6/15/2017 5:15	48780	813	6.09	14.06	17.02	20.49	8.571	14.291
6/15/2017 5:16	48840	814	6.088	14.06	17.01	20.50	8.575	14.32
6/15/2017 5:17	48900	815	6.087	14.05	17.01	20.50	8.577	14.301
6/15/2017 5:18	48960	816	6.088	14.06	17.01	20.50	8.575	14.296
6/15/2017 5:19	49020	817	6.09	14.06	17.02	20.49	8.572	14.283
6/15/2017 5:20	49080	818	6.087	14.05	17.01	20.50	8.578	14.276
6/15/2017 5:21	49140	819	6.088	14.06	17.01	20.50	8.576	14.304

6/15/2017 5:22	49200	820	6.089	14.06	17.01	20.50	8.574	14.294
6/15/2017 5:23	49260	821	6.088	14.06	17.01	20.50	8.575	14.302
6/15/2017 5:24	49320	822	6.088	14.06	17.01	20.50	8.572	14.308
6/15/2017 5:25	49380	823	6.087	14.05	17.01	20.50	8.578	14.303
6/15/2017 5:26	49440	824	6.088	14.06	17.01	20.50	8.576	14.299
6/15/2017 5:27	49500	825	6.086	14.05	17.01	20.50	8.579	14.28
6/15/2017 5:28	49560	826	6.089	14.06	17.01	20.50	8.574	14.297
6/15/2017 5:29	49620	827	6.087	14.05	17.01	20.50	8.578	14.316
6/15/2017 5:30	49680	828	6.087	14.05	17.01	20.50	8.578	14.279
6/15/2017 5:31	49740	829	6.088	14.06	17.01	20.50	8.575	14.284
6/15/2017 5:32	49800	830	6.09	14.06	17.02	20.49	8.572	14.282
6/15/2017 5:33	49860	831	6.088	14.06	17.01	20.50	8.574	14.283
6/15/2017 5:34	49920	832	6.087	14.05	17.01	20.50	8.577	14.278
6/15/2017 5:35	49980	833	6.088	14.06	17.01	20.50	8.576	14.299
6/15/2017 5:36	50040	834	6.086	14.05	17.01	20.50	8.58	14.275
6/15/2017 5:37	50100	835	6.088	14.06	17.01	20.50	8.576	14.299
6/15/2017 5:38	50160	836	6.086	14.05	17.01	20.50	8.58	14.273
6/15/2017 5:39	50220	837	6.085	14.05	17.01	20.50	8.582	14.279
6/15/2017 5:40	50280	838	6.089	14.06	17.01	20.50	8.573	14.271
6/15/2017 5:41	50340	839	6.083	14.05	17.00	20.51	8.586	14.294
6/15/2017 5:42	50400	840	6.086	14.05	17.01	20.50	8.58	14.297
6/15/2017 5:43	50460	841	6.087	14.05	17.01	20.50	8.578	14.281
6/15/2017 5:44	50520	842	6.087	14.05	17.01	20.50	8.579	14.296
6/15/2017 5:45	50580	843	6.087	14.05	17.01	20.50	8.578	14.307
6/15/2017 5:46	50640	844	6.087	14.05	17.01	20.50	8.578	14.276
6/15/2017 5:47	50700	845	6.086	14.05	17.01	20.50	8.58	14.262
6/15/2017 5:48	50760	846	6.085	14.05	17.01	20.50	8.583	14.276
6/15/2017 5:49	50820	847	6.084	14.05	17.00	20.51	8.584	14.269
6/15/2017 5:50	50880	848	6.086	14.05	17.01	20.50	8.579	14.3
6/15/2017 5:51	50940	849	6.086	14.05	17.01	20.50	8.581	14.286
6/15/2017 5:52	51000	850	6.085	14.05	17.01	20.50	8.582	14.26
6/15/2017 5:53	51060	851	6.087	14.05	17.01	20.50	8.579	14.278
6/15/2017 5:54	51120	852	6.086	14.05	17.01	20.50	8.58	14.283
6/15/2017 5:55	51180	853	6.086	14.05	17.01	20.50	8.58	14.276
6/15/2017 5:56	51240	854	6.086	14.05	17.01	20.50	8.58	14.295
6/15/2017 5:57	51300	855	6.085	14.05	17.01	20.50	8.582	14.26
6/15/2017 5:58	51360	856	6.086	14.05	17.01	20.50	8.58	14.288
6/15/2017 5:59	51420	857	6.085	14.05	17.01	20.50	8.583	14.279
6/15/2017 6:00	51480	858	6.086	14.05	17.01	20.50	8.58	14.277
6/15/2017 6:01	51540	859	6.085	14.05	17.01	20.50	8.582	14.275
6/15/2017 6:02	51600	860	6.086	14.05	17.01	20.50	8.58	14.269
6/15/2017 6:03	51660	861	6.084	14.05	17.00	20.51	8.584	14.271
6/15/2017 6:04	51720	862	6.084	14.05	17.00	20.51	8.584	14.291
6/15/2017 6:05	51780	863	6.085	14.05	17.01	20.50	8.583	14.281
6/15/2017 6:06	51840	864	6.085	14.05	17.01	20.50	8.583	14.273
6/15/2017 6:07	51900	865	6.084	14.05	17.00	20.51	8.584	14.281
6/15/2017 6:08	51960	866	6.084	14.05	17.00	20.51	8.584	14.269

6/15/2017 6:09	52020	867	6.084	14.05	17.00	20.51	8.584	14.251
6/15/2017 6:10	52080	868	6.086	14.05	17.01	20.50	8.58	14.298
6/15/2017 6:11	52140	869	6.084	14.05	17.00	20.51	8.585	14.289
6/15/2017 6:12	52200	870	6.085	14.05	17.01	20.50	8.583	14.293
6/15/2017 6:13	52260	871	6.087	14.05	17.01	20.50	8.578	14.277
6/15/2017 6:14	52320	872	6.084	14.05	17.00	20.51	8.584	14.265
6/15/2017 6:15	52380	873	6.084	14.05	17.00	20.51	8.584	14.256
6/15/2017 6:16	52440	874	6.086	14.05	17.01	20.50	8.579	14.28
6/15/2017 6:17	52500	875	6.083	14.05	17.00	20.51	8.586	14.257
6/15/2017 6:18	52560	876	6.083	14.05	17.00	20.51	8.587	14.26
6/15/2017 6:19	52620	877	6.083	14.05	17.00	20.51	8.588	14.281
6/15/2017 6:20	52680	878	6.083	14.05	17.00	20.51	8.586	14.25
6/15/2017 6:21	52740	879	6.084	14.05	17.00	20.51	8.584	14.25
6/15/2017 6:22	52800	880	6.082	14.04	17.00	20.51	8.588	14.279
6/15/2017 6:23	52860	881	6.084	14.05	17.00	20.51	8.585	14.277
6/15/2017 6:24	52920	882	6.083	14.05	17.00	20.51	8.586	14.269
6/15/2017 6:25	52980	883	6.082	14.04	17.00	20.51	8.588	14.26
6/15/2017 6:26	53040	884	6.082	14.04	17.00	20.51	8.589	14.246
6/15/2017 6:27	53100	885	6.084	14.05	17.00	20.51	8.585	14.263
6/15/2017 6:28	53160	886	6.084	14.05	17.00	20.51	8.586	14.276
6/15/2017 6:29	53220	887	6.083	14.05	17.00	20.51	8.588	14.284
6/15/2017 6:30	53280	888	6.084	14.05	17.00	20.51	8.585	14.273
6/15/2017 6:31	53340	889	6.082	14.04	17.00	20.51	8.588	14.252
6/15/2017 6:32	53400	890	6.084	14.05	17.00	20.51	8.584	14.279
6/15/2017 6:33	53460	891	6.082	14.04	17.00	20.51	8.589	14.269
6/15/2017 6:34	53520	892	6.082	14.04	17.00	20.51	8.589	14.262
6/15/2017 6:35	53580	893	6.082	14.04	17.00	20.51	8.589	14.271
6/15/2017 6:36	53640	894	6.082	14.04	17.00	20.51	8.588	14.255
6/15/2017 6:37	53700	895	6.082	14.04	17.00	20.51	8.59	14.268
6/15/2017 6:38	53760	896	6.083	14.05	17.00	20.51	8.587	14.282
6/15/2017 6:39	53820	897	6.083	14.05	17.00	20.51	8.588	14.271
6/15/2017 6:40	53880	898	6.082	14.04	17.00	20.51	8.588	14.264
6/15/2017 6:41	53940	899	6.082	14.04	17.00	20.51	8.588	14.274
6/15/2017 6:42	54000	900	6.081	14.04	17.00	20.51	8.592	14.257
6/15/2017 6:43	54060	901	6.08	14.04	16.99	20.52	8.593	14.272
6/15/2017 6:44	54120	902	6.082	14.04	17.00	20.51	8.589	14.281
6/15/2017 6:45	54180	903	6.082	14.04	17.00	20.51	8.59	14.268
6/15/2017 6:46	54240	904	6.081	14.04	17.00	20.51	8.593	14.235
6/15/2017 6:47	54300	905	6.081	14.04	17.00	20.51	8.591	14.266
6/15/2017 6:48	54360	906	6.08	14.04	16.99	20.52	8.593	14.275
6/15/2017 6:49	54420	907	6.08	14.04	16.99	20.52	8.595	14.278
6/15/2017 6:50	54480	908	6.081	14.04	17.00	20.51	8.591	14.261
6/15/2017 6:51	54540	909	6.082	14.04	17.00	20.51	8.589	14.275
6/15/2017 6:52	54600	910	6.08	14.04	16.99	20.52	8.594	14.285
6/15/2017 6:53	54660	911	6.08	14.04	16.99	20.52	8.594	14.284
6/15/2017 6:54	54720	912	6.082	14.04	17.00	20.51	8.59	14.263
6/15/2017 6:55	54780	913	6.081	14.04	17.00	20.51	8.592	14.273

6/15/2017 6:56	54840	914	6.08	14.04	16.99	20.52	8.593	14.27
6/15/2017 6:57	54900	915	6.079	14.04	16.99	20.52	8.595	14.279
6/15/2017 6:58	54960	916	6.08	14.04	16.99	20.52	8.594	14.263
6/15/2017 6:59	55020	917	6.079	14.04	16.99	20.52	8.596	14.285
6/15/2017 7:00	55080	918	6.08	14.04	16.99	20.52	8.594	14.266
6/15/2017 7:01	55140	919	6.081	14.04	17.00	20.51	8.592	14.27
6/15/2017 7:02	55200	920	6.078	14.03	16.99	20.52	8.598	14.269
6/15/2017 7:03	55260	921	6.08	14.04	16.99	20.52	8.593	14.257
6/15/2017 7:04	55320	922	6.081	14.04	17.00	20.51	8.591	14.257
6/15/2017 7:05	55380	923	6.08	14.04	16.99	20.52	8.594	14.263
6/15/2017 7:06	55440	924	6.078	14.03	16.99	20.52	8.599	14.236
6/15/2017 7:07	55500	925	6.078	14.03	16.99	20.52	8.598	14.269
6/15/2017 7:08	55560	926	6.08	14.04	16.99	20.52	8.593	14.28
6/15/2017 7:09	55620	927	6.08	14.04	16.99	20.52	8.594	14.262
6/15/2017 7:10	55680	928	6.08	14.04	16.99	20.52	8.595	14.264
6/15/2017 7:11	55740	929	6.08	14.04	16.99	20.52	8.594	14.261
6/15/2017 7:12	55800	930	6.077	14.03	16.99	20.52	8.601	14.257
6/15/2017 7:13	55860	931	6.083	14.05	17.00	20.51	8.586	14.254
6/15/2017 7:14	55920	932	6.08	14.04	16.99	20.52	8.594	14.269
6/15/2017 7:15	55980	933	6.081	14.04	17.00	20.51	8.593	14.268
6/15/2017 7:16	56040	934	6.081	14.04	17.00	20.51	8.592	14.269
6/15/2017 7:17	56100	935	6.079	14.04	16.99	20.52	8.596	14.266
6/15/2017 7:18	56160	936	6.081	14.04	17.00	20.51	8.592	14.275
6/15/2017 7:19	56220	937	6.08	14.04	16.99	20.52	8.594	14.275
6/15/2017 7:20	56280	938	6.079	14.04	16.99	20.52	8.596	14.277
6/15/2017 7:21	56340	939	6.079	14.04	16.99	20.52	8.596	14.248
6/15/2017 7:22	56400	940	6.08	14.04	16.99	20.52	8.594	14.25
6/15/2017 7:23	56460	941	6.079	14.04	16.99	20.52	8.597	14.264
6/15/2017 7:24	56520	942	6.08	14.04	16.99	20.52	8.595	14.266
6/15/2017 7:25	56580	943	6.078	14.03	16.99	20.52	8.599	14.269
6/15/2017 7:26	56640	944	6.078	14.03	16.99	20.52	8.597	14.265
6/15/2017 7:27	56700	945	6.079	14.04	16.99	20.52	8.598	14.248
6/15/2017 7:28	56760	946	6.078	14.03	16.99	20.52	8.597	14.249
6/15/2017 7:29	56820	947	6.079	14.04	16.99	20.52	8.597	14.286
6/15/2017 7:30	56880	948	6.081	14.04	17.00	20.51	8.592	14.286
6/15/2017 7:31	56940	949	6.08	14.04	16.99	20.52	8.595	14.26
6/15/2017 7:32	57000	950	6.077	14.03	16.99	20.52	8.6	14.283
6/15/2017 7:33	57060	951	6.078	14.03	16.99	20.52	8.599	14.268
6/15/2017 7:34	57120	952	6.08	14.04	16.99	20.52	8.595	14.285
6/15/2017 7:35	57180	953	6.077	14.03	16.99	20.52	8.6	14.251
6/15/2017 7:36	57240	954	6.078	14.03	16.99	20.52	8.598	14.26
6/15/2017 7:37	57300	955	6.09	14.06	17.02	20.49	8.57	14.269
6/15/2017 7:38	57360	956	6.085	14.05	17.01	20.50	8.582	14.282
6/15/2017 7:39	57420	957	6.082	14.04	17.00	20.51	8.59	14.28
6/15/2017 7:40	57480	958	6.082	14.04	17.00	20.51	8.589	14.265



Report Date: 6/16/2017 11:37
Report User Name: spauldingj
Report Computer N LAPTOP04
Application: WinSitu.exe
Application Version 5.6.25.0

Log File Properties
File Name PZ-17-1_Append_2017-06-15_08-09-29-828.wsl
Create Date 6/15/2017 8:09

Device Properties
Device Level TROLL 700
Site Orange County Landfill
Device Name
Serial Number 429368
Firmware Version 3.03
Hardware Version 5
Device Address 1
Device Comm Cfg 19200
Used Memory 0
Used Battery 11

Log Configuration

Log Name
Created By
Computer Name
Application
Application Version
Create Date
Log Setup Time Zone
Notes Size(bytes)
Overwrite when full
Scheduled Start Time
Scheduled Stop Time
Type
Interval

PZ-17-1
SpauldingJ
LAPTOP04
WinSitu.exe
5.6.25.0
6/14/2017 3:34:39 PM Eastern Daylight Time
Eastern Daylight Time
4096
Disabled
Manual Start
No Stop Time
Linear
Days: 0 hrs: 00 mins: 01 secs: 00

Even

8

Level Reference Settings At Log Creation
Level Measurement Mode
Specific Gravity
Level Reference Mode:
Level Reference Value:
Level Reference Head Pressure

Level Depth To Water
0.999
Set new reference
20.36 (ft)
0.0121307 (PSI)

Other Log Settings

Depth of Probe: 0.028353 (ft)
Head Pressure: 0.0122795 (PSI)
Temperature: 37.8414 (C)

Log Notes:

Date and Time Note
6/14/2017 15:34 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/14/2017 15:35 Manual Start Command
6/15/2017 8:00 Suspend Command
6/15/2017 8:00 Resume Command
6/15/2017 8:02 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/15/2017 8:02 Manual Stop Command

Log Data:

Record Count 989

Sensors

1

Pressure/Temp 15 PSIG (11m/35ft)

429368

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time Seconds	Minutes	Sensor: Pres(G) 35ft SN#: 429368			Sensor: Pres(G) 35ft SN#: 429368		
			Pressure (PSI)	Calculations	Water Level (ft.)	Level Depth To Water (ft)	Temperature (C)	Temperature (C)
6/14/2017 15:35	0	0	0.01	0.02	20.365	20.365	37.109	37.109
6/14/2017 15:36	60.001	1	0.001	0.00	20.386	20.386	35.411	35.411
6/14/2017 15:37	120.001	2	3.895	8.99	11.395	11.395	31.292	31.292
6/14/2017 15:38	180.001	3	3.895	8.99	11.395	11.395	25.711	25.711
6/14/2017 15:39	240.001	4	3.157	7.29	11.20	20.36	13.097	21.92
6/14/2017 15:40	300.001	5	3.15	7.27	11.18	20.38	13.114	19.501
6/14/2017 15:41	360.001	6	3.142	7.25	11.17	20.39	13.133	18.013
6/14/2017 15:42	420.001	7	3.137	7.24	11.15	20.41	13.145	17.041
6/14/2017 15:43	480.001	8	3.131	7.23	11.14	20.42	13.159	16.342
6/14/2017 15:44	540.001	9	3.126	7.22	11.13	20.43	13.169	15.867
6/14/2017 15:45	600.001	10	3.124	7.21	11.12	20.44	13.175	15.499
6/14/2017 15:46	660.001	11	3.121	7.21	11.12	20.44	13.182	15.221
6/14/2017 15:47	720.001	12	3.121	7.21	11.12	20.44	13.181	14.985
6/14/2017 15:48	780.001	13	3.116	7.19	11.11	20.45	13.192	14.822
6/14/2017 15:49	840.001	14	3.118	7.20	11.11	20.45	13.19	14.682
6/14/2017 15:50	900.001	15	3.117	7.20	11.11	20.45	13.19	14.556
6/14/2017 15:51	960.001	16	3.116	7.19	11.11	20.45	13.192	14.467

6/14/2017 15:52	1020.001	17	3.118	7.20	11.11	20.45	13.189	14.394
6/14/2017 15:53	1080.001	18	3.119	7.20	11.11	20.45	13.185	14.312
6/14/2017 15:54	1140.001	19	3.121	7.21	11.12	20.44	13.181	14.266
6/14/2017 15:55	1200.001	20	3.122	7.21	11.12	20.44	13.179	14.205
6/14/2017 15:56	1260.001	21	3.124	7.21	11.12	20.44	13.175	14.156
6/14/2017 15:57	1320.001	22	3.125	7.22	11.13	20.43	13.172	14.115
6/14/2017 15:58	1380.001	23	3.127	7.22	11.13	20.43	13.167	14.084
6/14/2017 15:59	1440.001	24	3.131	7.23	11.14	20.42	13.158	14.052
6/14/2017 16:00	1500.001	25	3.133	7.23	11.14	20.42	13.155	14.016
6/14/2017 16:01	1560.001	26	3.135	7.24	11.15	20.41	13.15	14.003
6/14/2017 16:02	1620.001	27	3.136	7.24	11.15	20.41	13.148	13.984
6/14/2017 16:03	1680.001	28	3.141	7.25	11.16	20.40	13.135	13.982
6/14/2017 16:04	1740.001	29	3.143	7.26	11.17	20.39	13.13	13.963
6/14/2017 16:05	1800.001	30	3.148	7.27	11.18	20.38	13.12	13.934
6/14/2017 16:06	1860.001	31	3.148	7.27	11.18	20.38	13.119	13.931
6/14/2017 16:07	1920.001	32	3.151	7.28	11.19	20.37	13.113	13.903
6/14/2017 16:08	1980.001	33	3.153	7.28	11.19	20.37	13.108	13.929
6/14/2017 16:09	2040.001	34	3.157	7.29	11.20	20.36	13.098	13.908
6/14/2017 16:10	2100.001	35	3.156	7.29	11.20	20.36	13.101	13.888
6/14/2017 16:11	2160.001	36	3.158	7.29	11.20	20.36	13.096	13.895
6/14/2017 16:12	2220.001	37	3.165	7.31	11.22	20.34	13.081	13.903
6/14/2017 16:13	2280.001	38	3.167	7.31	11.22	20.34	13.077	13.873
6/14/2017 16:14	2340.001	39	3.166	7.31	11.22	20.34	13.077	13.866
6/14/2017 16:15	2400.001	40	3.169	7.32	11.23	20.33	13.07	13.879
6/14/2017 16:16	2460.001	41	3.171	7.32	11.23	20.33	13.066	13.895
6/14/2017 16:17	2520.001	42	3.174	7.33	11.24	20.32	13.06	13.878
6/14/2017 16:18	2580.001	43	3.175	7.33	11.24	20.32	13.057	13.87
6/14/2017 16:19	2640.001	44	3.177	7.34	11.25	20.31	13.051	13.86
6/14/2017 16:20	2700.001	45	3.18	7.34	11.25	20.31	13.047	13.839
6/14/2017 16:21	2760.001	46	3.181	7.34	11.26	20.30	13.043	13.834
6/14/2017 16:22	2820.001	47	3.185	7.35	11.26	20.30	13.034	13.842
6/14/2017 16:23	2880.001	48	3.187	7.36	11.27	20.29	13.03	13.867
6/14/2017 16:24	2940.001	49	3.187	7.36	11.27	20.29	13.03	13.854
6/14/2017 16:25	3000.001	50	3.188	7.36	11.27	20.29	13.027	13.837
6/14/2017 16:26	3060.001	51	3.19	7.37	11.28	20.28	13.022	13.829
6/14/2017 16:27	3120.001	52	3.19	7.37	11.28	20.28	13.021	13.833
6/14/2017 16:28	3180.001	53	3.193	7.37	11.28	20.28	13.016	13.834
6/14/2017 16:29	3240.001	54	3.194	7.37	11.29	20.27	13.014	13.836
6/14/2017 16:30	3300.001	55	3.195	7.38	11.29	20.27	13.011	13.846
6/14/2017 16:31	3360.001	56	3.197	7.38	11.29	20.27	13.005	13.844
6/14/2017 16:32	3420.001	57	3.197	7.38	11.29	20.27	13.007	13.843
6/14/2017 16:33	3480.001	58	3.198	7.38	11.29	20.27	13.003	13.841
6/14/2017 16:34	3540.001	59	3.199	7.39	11.30	20.26	13	13.844
6/14/2017 16:35	3600.001	60	3.202	7.39	11.30	20.26	12.996	13.814
6/14/2017 16:36	3660.001	61	3.202	7.39	11.30	20.26	12.996	13.84
6/14/2017 16:37	3720.001	62	3.204	7.40	11.31	20.25	12.991	13.837
6/14/2017 16:38	3780.001	63	3.206	7.40	11.31	20.25	12.985	13.829

6/14/2017 16:39	3840.001	64	3.207	7.40	11.32	20.24	12.983	13.842
6/14/2017 16:40	3900.001	65	3.207	7.40	11.32	20.24	12.983	13.83
6/14/2017 16:41	3960.001	66	3.209	7.41	11.32	20.24	12.978	13.815
6/14/2017 16:42	4020.001	67	3.208	7.41	11.32	20.24	12.98	13.823
6/14/2017 16:43	4080.001	68	3.212	7.42	11.33	20.23	12.973	13.848
6/14/2017 16:44	4140.001	69	3.213	7.42	11.33	20.23	12.97	13.846
6/14/2017 16:45	4200.001	70	3.211	7.41	11.32	20.24	12.974	13.843
6/14/2017 16:46	4260.001	71	3.213	7.42	11.33	20.23	12.969	13.811
6/14/2017 16:47	4320.001	72	3.214	7.42	11.33	20.23	12.966	13.819
6/14/2017 16:48	4380.001	73	3.215	7.42	11.33	20.23	12.965	13.833
6/14/2017 16:49	4440.001	74	3.216	7.43	11.34	20.22	12.963	13.855
6/14/2017 16:50	4500.001	75	3.216	7.43	11.34	20.22	12.963	13.837
6/14/2017 16:51	4560.001	76	3.217	7.43	11.34	20.22	12.96	13.793
6/14/2017 16:52	4620.001	77	3.218	7.43	11.34	20.22	12.959	13.809
6/14/2017 16:53	4680.001	78	3.221	7.44	11.35	20.21	12.952	13.825
6/14/2017 16:54	4740.001	79	3.22	7.43	11.35	20.21	12.953	13.83
6/14/2017 16:55	4800.001	80	3.22	7.43	11.35	20.21	12.952	13.831
6/14/2017 16:56	4860.001	81	3.221	7.44	11.35	20.21	12.95	13.815
6/14/2017 16:57	4920.001	82	3.22	7.43	11.35	20.21	12.954	13.843
6/14/2017 16:58	4980.001	83	3.222	7.44	11.35	20.21	12.949	13.823
6/14/2017 16:59	5040.001	84	3.223	7.44	11.35	20.21	12.945	13.833
6/14/2017 17:00	5100.001	85	3.225	7.45	11.36	20.20	12.941	13.808
6/14/2017 17:01	5160.001	86	3.225	7.45	11.36	20.20	12.942	13.837
6/14/2017 17:02	5220.001	87	3.226	7.45	11.36	20.20	12.94	13.842
6/14/2017 17:03	5280.001	88	3.227	7.45	11.36	20.20	12.938	13.795
6/14/2017 17:04	5340.001	89	3.227	7.45	11.36	20.20	12.938	13.828
6/14/2017 17:05	5400.001	90	3.228	7.45	11.36	20.20	12.934	13.834
6/14/2017 17:06	5460.001	91	3.229	7.46	11.37	20.19	12.931	13.823
6/14/2017 17:07	5520.001	92	3.227	7.45	11.36	20.20	12.936	13.82
6/14/2017 17:08	5580.001	93	3.229	7.46	11.37	20.19	12.933	13.831
6/14/2017 17:09	5640.001	94	3.23	7.46	11.37	20.19	12.929	13.802
6/14/2017 17:10	5700.001	95	3.231	7.46	11.37	20.19	12.928	13.804
6/14/2017 17:11	5760.001	96	3.232	7.46	11.37	20.19	12.926	13.809
6/14/2017 17:12	5820.001	97	3.231	7.46	11.37	20.19	12.927	13.803
6/14/2017 17:13	5880.001	98	3.233	7.46	11.38	20.18	12.923	13.815
6/14/2017 17:14	5940.001	99	3.232	7.46	11.37	20.19	12.924	13.817
6/14/2017 17:15	6000.001	100	3.234	7.47	11.38	20.18	12.922	13.83
6/14/2017 17:16	6060.001	101	3.233	7.46	11.38	20.18	12.923	13.805
6/14/2017 17:17	6120.001	102	3.234	7.47	11.38	20.18	12.92	13.818
6/14/2017 17:18	6180.001	103	3.233	7.46	11.38	20.18	12.923	13.836
6/14/2017 17:19	6240.001	104	3.235	7.47	11.38	20.18	12.919	13.826
6/14/2017 17:20	6300.001	105	3.236	7.47	11.38	20.18	12.915	13.831
6/14/2017 17:21	6360.001	106	3.238	7.48	11.39	20.17	12.911	13.81
6/14/2017 17:22	6420.001	107	3.238	7.48	11.39	20.17	12.913	13.804
6/14/2017 17:23	6480.001	108	3.237	7.47	11.38	20.18	12.914	13.83
6/14/2017 17:24	6540.001	109	3.239	7.48	11.39	20.17	12.91	13.826
6/14/2017 17:25	6600.001	110	3.238	7.48	11.39	20.17	12.911	13.793

6/14/2017 17:26	6660.001	111	3.237	7.47	11.38	20.18	12.913	13.809
6/14/2017 17:27	6720.001	112	3.238	7.48	11.39	20.17	12.911	13.802
6/14/2017 17:28	6780.001	113	3.237	7.47	11.38	20.18	12.913	13.824
6/14/2017 17:29	6840.001	114	3.238	7.48	11.39	20.17	12.911	13.817
6/14/2017 17:30	6900.001	115	3.239	7.48	11.39	20.17	12.909	13.814
6/14/2017 17:31	6960.001	116	3.24	7.48	11.39	20.17	12.906	13.819
6/14/2017 17:32	7020.001	117	3.24	7.48	11.39	20.17	12.908	13.816
6/14/2017 17:33	7080.001	118	3.242	7.49	11.40	20.16	12.903	13.835
6/14/2017 17:34	7140.001	119	3.24	7.48	11.39	20.17	12.907	13.812
6/14/2017 17:35	7200.001	120	3.243	7.49	11.40	20.16	12.899	13.827
6/14/2017 17:36	7260.001	121	3.242	7.49	11.40	20.16	12.903	13.831
6/14/2017 17:37	7320.001	122	3.243	7.49	11.40	20.16	12.899	13.815
6/14/2017 17:38	7380.001	123	3.243	7.49	11.40	20.16	12.901	13.813
6/14/2017 17:39	7440.001	124	3.246	7.49	11.41	20.15	12.893	13.836
6/14/2017 17:40	7500.001	125	3.243	7.49	11.40	20.16	12.899	13.794
6/14/2017 17:41	7560.001	126	3.243	7.49	11.40	20.16	12.901	13.824
6/14/2017 17:42	7620.001	127	3.245	7.49	11.40	20.16	12.896	13.821
6/14/2017 17:43	7680.001	128	3.242	7.49	11.40	20.16	12.902	13.83
6/14/2017 17:44	7740.001	129	3.246	7.49	11.41	20.15	12.894	13.82
6/14/2017 17:45	7800.001	130	3.246	7.49	11.41	20.15	12.893	13.828
6/14/2017 17:46	7860.001	131	3.246	7.49	11.41	20.15	12.894	13.817
6/14/2017 17:47	7920.001	132	3.247	7.50	11.41	20.15	12.891	13.82
6/14/2017 17:48	7980.001	133	3.249	7.50	11.41	20.15	12.887	13.82
6/14/2017 17:49	8040.001	134	3.247	7.50	11.41	20.15	12.891	13.804
6/14/2017 17:50	8100.001	135	3.246	7.49	11.41	20.15	12.894	13.804
6/14/2017 17:51	8160.001	136	3.248	7.50	11.41	20.15	12.889	13.842
6/14/2017 17:52	8220.001	137	3.248	7.50	11.41	20.15	12.888	13.823
6/14/2017 17:53	8280.001	138	3.247	7.50	11.41	20.15	12.891	13.801
6/14/2017 17:54	8340.001	139	3.249	7.50	11.41	20.15	12.887	13.825
6/14/2017 17:55	8400.001	140	3.249	7.50	11.41	20.15	12.885	13.79
6/14/2017 17:56	8460.001	141	3.247	7.50	11.41	20.15	12.892	13.802
6/14/2017 17:57	8520.001	142	3.251	7.51	11.42	20.14	12.881	13.824
6/14/2017 17:58	8580.001	143	3.25	7.50	11.41	20.15	12.884	13.815
6/14/2017 17:59	8640.001	144	3.251	7.51	11.42	20.14	12.883	13.827
6/14/2017 18:00	8700.001	145	3.25	7.50	11.41	20.15	12.884	13.821
6/14/2017 18:01	8760.001	146	3.249	7.50	11.41	20.15	12.886	13.804
6/14/2017 18:02	8820.001	147	3.251	7.51	11.42	20.14	12.883	13.825
6/14/2017 18:03	8880.001	148	3.25	7.50	11.41	20.15	12.884	13.811
6/14/2017 18:04	8940.001	149	3.251	7.51	11.42	20.14	12.881	13.83
6/14/2017 18:05	9000.001	150	3.254	7.51	11.42	20.14	12.874	13.826
6/14/2017 18:06	9060.001	151	3.254	7.51	11.42	20.14	12.875	13.817
6/14/2017 18:07	9120.001	152	3.251	7.51	11.42	20.14	12.882	13.812
6/14/2017 18:08	9180.001	153	3.252	7.51	11.42	20.14	12.88	13.834
6/14/2017 18:09	9240.001	154	3.253	7.51	11.42	20.14	12.878	13.832
6/14/2017 18:10	9300.001	155	3.252	7.51	11.42	20.14	12.879	13.818
6/14/2017 18:11	9360.001	156	3.253	7.51	11.42	20.14	12.877	13.839
6/14/2017 18:12	9420.001	157	3.254	7.51	11.42	20.14	12.876	13.804

6/14/2017 18:13	9480.001	158	3.255	7.52	11.43	20.13	12.872	13.806
6/14/2017 18:14	9540.001	159	3.253	7.51	11.42	20.14	12.878	13.831
6/14/2017 18:15	9600.001	160	3.257	7.52	11.43	20.13	12.867	13.815
6/14/2017 18:16	9660.001	161	3.254	7.51	11.42	20.14	12.875	13.826
6/14/2017 18:17	9720.001	162	3.254	7.51	11.42	20.14	12.876	13.821
6/14/2017 18:18	9780.001	163	3.256	7.52	11.43	20.13	12.87	13.824
6/14/2017 18:19	9840.001	164	3.257	7.52	11.43	20.13	12.869	13.806
6/14/2017 18:20	9900.001	165	3.256	7.52	11.43	20.13	12.869	13.83
6/14/2017 18:21	9960.001	166	3.256	7.52	11.43	20.13	12.871	13.812
6/14/2017 18:22	10020.001	167	3.255	7.52	11.43	20.13	12.872	13.839
6/14/2017 18:23	10080.001	168	3.258	7.52	11.43	20.13	12.866	13.806
6/14/2017 18:24	10140.001	169	3.257	7.52	11.43	20.13	12.867	13.803
6/14/2017 18:25	10200.001	170	3.257	7.52	11.43	20.13	12.868	13.831
6/14/2017 18:26	10260.001	171	3.26	7.53	11.44	20.12	12.861	13.833
6/14/2017 18:27	10320.001	172	3.261	7.53	11.44	20.12	12.859	13.822
6/14/2017 18:28	10380.001	173	3.258	7.52	11.43	20.13	12.865	13.787
6/14/2017 18:29	10440.001	174	3.258	7.52	11.43	20.13	12.866	13.817
6/14/2017 18:30	10500.001	175	3.258	7.52	11.43	20.13	12.865	13.822
6/14/2017 18:31	10560.001	176	3.261	7.53	11.44	20.12	12.858	13.811
6/14/2017 18:32	10620.001	177	3.259	7.52	11.44	20.12	12.862	13.803
6/14/2017 18:33	10680.001	178	3.26	7.53	11.44	20.12	12.86	13.826
6/14/2017 18:34	10740.001	179	3.259	7.52	11.44	20.12	12.861	13.807
6/14/2017 18:35	10800.001	180	3.259	7.52	11.44	20.12	12.863	13.801
6/14/2017 18:36	10860.001	181	3.26	7.53	11.44	20.12	12.861	13.803
6/14/2017 18:37	10920.001	182	3.26	7.53	11.44	20.12	12.862	13.79
6/14/2017 18:38	10980.001	183	3.261	7.53	11.44	20.12	12.858	13.82
6/14/2017 18:39	11040.001	184	3.261	7.53	11.44	20.12	12.858	13.812
6/14/2017 18:40	11100.001	185	3.26	7.53	11.44	20.12	12.861	13.814
6/14/2017 18:41	11160.001	186	3.26	7.53	11.44	20.12	12.861	13.815
6/14/2017 18:42	11220.001	187	3.264	7.54	11.45	20.11	12.852	13.806
6/14/2017 18:43	11280.001	188	3.261	7.53	11.44	20.12	12.858	13.821
6/14/2017 18:44	11340.001	189	3.263	7.53	11.44	20.12	12.854	13.811
6/14/2017 18:45	11400.001	190	3.262	7.53	11.44	20.12	12.855	13.819
6/14/2017 18:46	11460.001	191	3.262	7.53	11.44	20.12	12.856	13.803
6/14/2017 18:47	11520.001	192	3.263	7.53	11.44	20.12	12.853	13.817
6/14/2017 18:48	11580.001	193	3.264	7.54	11.45	20.11	12.853	13.793
6/14/2017 18:49	11640.001	194	3.262	7.53	11.44	20.12	12.856	13.791
6/14/2017 18:50	11700.001	195	3.263	7.53	11.44	20.12	12.854	13.795
6/14/2017 18:51	11760.001	196	3.263	7.53	11.44	20.12	12.853	13.809
6/14/2017 18:52	11820.001	197	3.263	7.53	11.44	20.12	12.855	13.807
6/14/2017 18:53	11880.001	198	3.264	7.54	11.45	20.11	12.852	13.817
6/14/2017 18:54	11940.001	199	3.266	7.54	11.45	20.11	12.846	13.835
6/14/2017 18:55	12000.001	200	3.265	7.54	11.45	20.11	12.849	13.826
6/14/2017 18:56	12060.001	201	3.264	7.54	11.45	20.11	12.851	13.842
6/14/2017 18:57	12120.001	202	3.265	7.54	11.45	20.11	12.849	13.848
6/14/2017 18:58	12180.001	203	3.265	7.54	11.45	20.11	12.849	13.822
6/14/2017 18:59	12240.001	204	3.266	7.54	11.45	20.11	12.846	13.824

6/14/2017 19:00	12300.001	205	3.263	7.53	11.44	20.12	12.853	13.812
6/14/2017 19:01	12360.001	206	3.266	7.54	11.45	20.11	12.847	13.812
6/14/2017 19:02	12420.001	207	3.265	7.54	11.45	20.11	12.848	13.818
6/14/2017 19:03	12480.001	208	3.265	7.54	11.45	20.11	12.85	13.804
6/14/2017 19:04	12540.001	209	3.267	7.54	11.45	20.11	12.844	13.809
6/14/2017 19:05	12600.001	210	3.267	7.54	11.45	20.11	12.845	13.805
6/14/2017 19:06	12660.001	211	3.267	7.54	11.45	20.11	12.845	13.815
6/14/2017 19:07	12720.001	212	3.267	7.54	11.45	20.11	12.845	13.809
6/14/2017 19:08	12780.001	213	3.267	7.54	11.45	20.11	12.844	13.787
6/14/2017 19:09	12840.001	214	3.269	7.55	11.46	20.10	12.841	13.817
6/14/2017 19:10	12900.001	215	3.269	7.55	11.46	20.10	12.84	13.836
6/14/2017 19:11	12960.001	216	3.267	7.54	11.45	20.11	12.845	13.808
6/14/2017 19:12	13020.001	217	3.269	7.55	11.46	20.10	12.84	13.807
6/14/2017 19:13	13080.001	218	3.271	7.55	11.46	20.10	12.836	13.809
6/14/2017 19:14	13140.001	219	3.269	7.55	11.46	20.10	12.841	13.819
6/14/2017 19:15	13200.001	220	3.271	7.55	11.46	20.10	12.836	13.804
6/14/2017 19:16	13260.001	221	3.27	7.55	11.46	20.10	12.837	13.814
6/14/2017 19:17	13320.001	222	3.27	7.55	11.46	20.10	12.838	13.812
6/14/2017 19:18	13380.001	223	3.272	7.55	11.47	20.09	12.833	13.815
6/14/2017 19:19	13440.001	224	3.272	7.55	11.47	20.09	12.833	13.828
6/14/2017 19:20	13500.001	225	3.269	7.55	11.46	20.10	12.84	13.808
6/14/2017 19:21	13560.001	226	3.27	7.55	11.46	20.10	12.838	13.828
6/14/2017 19:22	13620.001	227	3.271	7.55	11.46	20.10	12.834	13.821
6/14/2017 19:23	13680.001	228	3.269	7.55	11.46	20.10	12.839	13.809
6/14/2017 19:24	13740.001	229	3.272	7.55	11.47	20.09	12.833	13.809
6/14/2017 19:25	13800.001	230	3.272	7.55	11.47	20.09	12.833	13.815
6/14/2017 19:26	13860.001	231	3.27	7.55	11.46	20.10	12.838	13.818
6/14/2017 19:27	13920.001	232	3.272	7.55	11.47	20.09	12.833	13.816
6/14/2017 19:28	13980.001	233	3.27	7.55	11.46	20.10	12.838	13.796
6/14/2017 19:29	14040.001	234	3.274	7.56	11.47	20.09	12.828	13.804
6/14/2017 19:30	14100.001	235	3.273	7.56	11.47	20.09	12.831	13.809
6/14/2017 19:31	14160.001	236	3.272	7.55	11.47	20.09	12.832	13.793
6/14/2017 19:32	14220.001	237	3.273	7.56	11.47	20.09	12.831	13.804
6/14/2017 19:33	14280.001	238	3.273	7.56	11.47	20.09	12.83	13.809
6/14/2017 19:34	14340.001	239	3.271	7.55	11.46	20.10	12.835	13.798
6/14/2017 19:35	14400.001	240	3.275	7.56	11.47	20.09	12.826	13.826
6/14/2017 19:36	14460.001	241	3.274	7.56	11.47	20.09	12.828	13.809
6/14/2017 19:37	14520.001	242	3.274	7.56	11.47	20.09	12.828	13.793
6/14/2017 19:38	14580.001	243	3.275	7.56	11.47	20.09	12.825	13.823
6/14/2017 19:39	14640.001	244	3.273	7.56	11.47	20.09	12.83	13.827
6/14/2017 19:40	14700.001	245	3.276	7.56	11.47	20.09	12.824	13.79
6/14/2017 19:41	14760.001	246	3.276	7.56	11.47	20.09	12.823	13.806
6/14/2017 19:42	14820.001	247	3.274	7.56	11.47	20.09	12.828	13.819
6/14/2017 19:43	14880.001	248	3.276	7.56	11.47	20.09	12.825	13.799
6/14/2017 19:44	14940.001	249	3.276	7.56	11.47	20.09	12.823	13.834
6/14/2017 19:45	15000.001	250	3.274	7.56	11.47	20.09	12.829	13.801
6/14/2017 19:46	15060.001	251	3.276	7.56	11.47	20.09	12.823	13.813

6/14/2017 19:47	15120.001	252	3.278	7.57	11.48	20.08	12.82	13.818
6/14/2017 19:48	15180.001	253	3.276	7.56	11.47	20.09	12.823	13.817
6/14/2017 19:49	15240.001	254	3.276	7.56	11.47	20.09	12.824	13.809
6/14/2017 19:50	15300.001	255	3.278	7.57	11.48	20.08	12.82	13.81
6/14/2017 19:51	15360.001	256	3.278	7.57	11.48	20.08	12.819	13.804
6/14/2017 19:52	15420.001	257	3.278	7.57	11.48	20.08	12.819	13.801
6/14/2017 19:53	15480.001	258	3.277	7.57	11.48	20.08	12.821	13.793
6/14/2017 19:54	15540.001	259	3.279	7.57	11.48	20.08	12.818	13.793
6/14/2017 19:55	15600.001	260	3.277	7.57	11.48	20.08	12.821	13.784
6/14/2017 19:56	15660.001	261	3.279	7.57	11.48	20.08	12.818	13.798
6/14/2017 19:57	15720.001	262	3.277	7.57	11.48	20.08	12.822	13.838
6/14/2017 19:58	15780.001	263	3.278	7.57	11.48	20.08	12.82	13.801
6/14/2017 19:59	15840.001	264	3.28	7.57	11.48	20.08	12.815	13.804
6/14/2017 20:00	15900.001	265	3.281	7.58	11.49	20.07	12.813	13.823
6/14/2017 20:01	15960.001	266	3.279	7.57	11.48	20.08	12.817	13.799
6/14/2017 20:02	16020.001	267	3.279	7.57	11.48	20.08	12.817	13.806
6/14/2017 20:03	16080.001	268	3.281	7.58	11.49	20.07	12.811	13.789
6/14/2017 20:04	16140.001	269	3.282	7.58	11.49	20.07	12.81	13.807
6/14/2017 20:05	16200.001	270	3.279	7.57	11.48	20.08	12.818	13.821
6/14/2017 20:06	16260.001	271	3.279	7.57	11.48	20.08	12.816	13.801
6/14/2017 20:07	16320.001	272	3.28	7.57	11.48	20.08	12.814	13.805
6/14/2017 20:08	16380.001	273	3.278	7.57	11.48	20.08	12.82	13.812
6/14/2017 20:09	16440.001	274	3.28	7.57	11.48	20.08	12.815	13.806
6/14/2017 20:10	16500.001	275	3.281	7.58	11.49	20.07	12.812	13.812
6/14/2017 20:11	16560.001	276	3.28	7.57	11.48	20.08	12.815	13.819
6/14/2017 20:12	16620.001	277	3.281	7.58	11.49	20.07	12.812	13.789
6/14/2017 20:13	16680.001	278	3.28	7.57	11.48	20.08	12.815	13.806
6/14/2017 20:14	16740.001	279	3.283	7.58	11.49	20.07	12.808	13.817
6/14/2017 20:15	16800.001	280	3.283	7.58	11.49	20.07	12.808	13.821
6/14/2017 20:16	16860.001	281	3.282	7.58	11.49	20.07	12.811	13.812
6/14/2017 20:17	16920.001	282	3.283	7.58	11.49	20.07	12.809	13.789
6/14/2017 20:18	16980.001	283	3.281	7.58	11.49	20.07	12.811	13.792
6/14/2017 20:19	17040.001	284	3.284	7.58	11.49	20.07	12.806	13.794
6/14/2017 20:20	17100.001	285	3.283	7.58	11.49	20.07	12.808	13.805
6/14/2017 20:21	17160.001	286	3.283	7.58	11.49	20.07	12.807	13.811
6/14/2017 20:22	17220.001	287	3.282	7.58	11.49	20.07	12.809	13.805
6/14/2017 20:23	17280.001	288	3.283	7.58	11.49	20.07	12.809	13.811
6/14/2017 20:24	17340.001	289	3.283	7.58	11.49	20.07	12.808	13.794
6/14/2017 20:25	17400.001	290	3.283	7.58	11.49	20.07	12.807	13.812
6/14/2017 20:26	17460.001	291	3.282	7.58	11.49	20.07	12.809	13.816
6/14/2017 20:27	17520.001	292	3.283	7.58	11.49	20.07	12.807	13.829
6/14/2017 20:28	17580.001	293	3.284	7.58	11.49	20.07	12.805	13.808
6/14/2017 20:29	17640.001	294	3.284	7.58	11.49	20.07	12.806	13.795
6/14/2017 20:30	17700.001	295	3.285	7.58	11.50	20.06	12.802	13.794
6/14/2017 20:31	17760.001	296	3.285	7.58	11.50	20.06	12.804	13.801
6/14/2017 20:32	17820.001	297	3.284	7.58	11.49	20.07	12.806	13.791
6/14/2017 20:33	17880.001	298	3.284	7.58	11.49	20.07	12.805	13.804

6/14/2017 20:34	17940.001	299	3.284	7.58	11.49	20.07	12.804	13.793
6/14/2017 20:35	18000.001	300	3.284	7.58	11.49	20.07	12.805	13.794
6/14/2017 20:36	18060.001	301	3.287	7.59	11.50	20.06	12.798	13.834
6/14/2017 20:37	18120.001	302	3.285	7.58	11.50	20.06	12.802	13.793
6/14/2017 20:38	18180.001	303	3.285	7.58	11.50	20.06	12.802	13.804
6/14/2017 20:39	18240.001	304	3.285	7.58	11.50	20.06	12.803	13.811
6/14/2017 20:40	18300.001	305	3.285	7.58	11.50	20.06	12.802	13.804
6/14/2017 20:41	18360.001	306	3.285	7.58	11.50	20.06	12.802	13.793
6/14/2017 20:42	18420.001	307	3.292	7.60	11.51	20.05	12.788	13.815
6/14/2017 20:43	18480.001	308	3.297	7.61	11.52	20.04	12.775	13.802
6/14/2017 20:44	18540.001	309	3.303	7.63	11.54	20.02	12.761	13.784
6/14/2017 20:45	18600.001	310	3.307	7.64	11.55	20.01	12.752	13.827
6/14/2017 20:46	18660.001	311	3.31	7.64	11.55	20.01	12.745	13.809
6/14/2017 20:47	18720.001	312	3.311	7.64	11.56	20.00	12.743	13.787
6/14/2017 20:48	18780.001	313	3.315	7.65	11.57	19.99	12.733	13.816
6/14/2017 20:49	18840.001	314	3.318	7.66	11.57	19.99	12.726	13.813
6/14/2017 20:50	18900.001	315	3.319	7.66	11.57	19.99	12.725	13.802
6/14/2017 20:51	18960.001	316	3.321	7.67	11.58	19.98	12.72	13.82
6/14/2017 20:52	19020.001	317	3.321	7.67	11.58	19.98	12.72	13.816
6/14/2017 20:53	19080.001	318	3.323	7.67	11.58	19.98	12.715	13.798
6/14/2017 20:54	19140.001	319	3.325	7.68	11.59	19.97	12.71	13.798
6/14/2017 20:55	19200.001	320	3.325	7.68	11.59	19.97	12.712	13.806
6/14/2017 20:56	19260.001	321	3.325	7.68	11.59	19.97	12.71	13.792
6/14/2017 20:57	19320.001	322	3.326	7.68	11.59	19.97	12.709	13.807
6/14/2017 20:58	19380.001	323	3.326	7.68	11.59	19.97	12.707	13.828
6/14/2017 20:59	19440.001	324	3.327	7.68	11.59	19.97	12.707	13.796
6/14/2017 21:00	19500.001	325	3.325	7.68	11.59	19.97	12.71	13.817
6/14/2017 21:01	19560.001	326	3.329	7.69	11.60	19.96	12.702	13.827
6/14/2017 21:02	19620.001	327	3.327	7.68	11.59	19.97	12.706	13.829
6/14/2017 21:03	19680.001	328	3.325	7.68	11.59	19.97	12.71	13.8
6/14/2017 21:04	19740.001	329	3.324	7.67	11.59	19.97	12.713	13.804
6/14/2017 21:05	19800.001	330	3.326	7.68	11.59	19.97	12.708	13.821
6/14/2017 21:06	19860.001	331	3.326	7.68	11.59	19.97	12.708	13.827
6/14/2017 21:07	19920.001	332	3.326	7.68	11.59	19.97	12.709	13.782
6/14/2017 21:08	19980.001	333	3.322	7.67	11.58	19.98	12.717	13.801
6/14/2017 21:09	20040.001	334	3.319	7.66	11.57	19.99	12.724	13.809
6/14/2017 21:10	20100.001	335	3.317	7.66	11.57	19.99	12.73	13.797
6/14/2017 21:11	20160.001	336	3.314	7.65	11.56	20.00	12.736	13.804
6/14/2017 21:12	20220.001	337	3.312	7.65	11.56	20.00	12.74	13.822
6/14/2017 21:13	20280.001	338	3.309	7.64	11.55	20.01	12.749	13.809
6/14/2017 21:14	20340.001	339	3.306	7.63	11.54	20.02	12.754	13.801
6/14/2017 21:15	20400.001	340	3.304	7.63	11.54	20.02	12.759	13.798
6/14/2017 21:16	20460.001	341	3.304	7.63	11.54	20.02	12.76	13.795
6/14/2017 21:17	20520.001	342	3.302	7.62	11.53	20.03	12.763	13.801
6/14/2017 21:18	20580.001	343	3.302	7.62	11.53	20.03	12.763	13.807
6/14/2017 21:19	20640.001	344	3.298	7.61	11.53	20.03	12.773	13.807
6/14/2017 21:20	20700.001	345	3.299	7.62	11.53	20.03	12.771	13.818

6/14/2017 21:21	20760.001	346	3.299	7.62	11.53	20.03	12.772	13.776
6/14/2017 21:22	20820.001	347	3.298	7.61	11.53	20.03	12.773	13.789
6/14/2017 21:23	20880.001	348	3.3	7.62	11.53	20.03	12.768	13.799
6/14/2017 21:24	20940.001	349	3.297	7.61	11.52	20.04	12.775	13.804
6/14/2017 21:25	21000.001	350	3.295	7.61	11.52	20.04	12.78	13.804
6/14/2017 21:26	21060.001	351	3.295	7.61	11.52	20.04	12.779	13.793
6/14/2017 21:27	21120.001	352	3.296	7.61	11.52	20.04	12.778	13.805
6/14/2017 21:28	21180.001	353	3.296	7.61	11.52	20.04	12.778	13.79
6/14/2017 21:29	21240.001	354	3.296	7.61	11.52	20.04	12.777	13.786
6/14/2017 21:30	21300.001	355	3.295	7.61	11.52	20.04	12.78	13.801
6/14/2017 21:31	21360.001	356	3.294	7.61	11.52	20.04	12.782	13.815
6/14/2017 21:32	21420.001	357	3.296	7.61	11.52	20.04	12.778	13.806
6/14/2017 21:33	21480.001	358	3.296	7.61	11.52	20.04	12.777	13.816
6/14/2017 21:34	21540.001	359	3.294	7.61	11.52	20.04	12.782	13.809
6/14/2017 21:35	21600.001	360	3.293	7.60	11.51	20.05	12.784	13.795
6/14/2017 21:36	21660.001	361	3.296	7.61	11.52	20.04	12.777	13.8
6/14/2017 21:37	21720.001	362	3.296	7.61	11.52	20.04	12.778	13.803
6/14/2017 21:38	21780.001	363	3.292	7.60	11.51	20.05	12.786	13.805
6/14/2017 21:39	21840.001	364	3.294	7.61	11.52	20.04	12.783	13.805
6/14/2017 21:40	21900.001	365	3.294	7.61	11.52	20.04	12.783	13.802
6/14/2017 21:41	21960.001	366	3.294	7.61	11.52	20.04	12.781	13.815
6/14/2017 21:42	22020.001	367	3.292	7.60	11.51	20.05	12.788	13.801
6/14/2017 21:43	22080.001	368	3.293	7.60	11.51	20.05	12.784	13.801
6/14/2017 21:44	22140.001	369	3.296	7.61	11.52	20.04	12.779	13.812
6/14/2017 21:45	22200.001	370	3.293	7.60	11.51	20.05	12.785	13.793
6/14/2017 21:46	22260.001	371	3.295	7.61	11.52	20.04	12.779	13.816
6/14/2017 21:47	22320.001	372	3.294	7.61	11.52	20.04	12.783	13.827
6/14/2017 21:48	22380.001	373	3.294	7.61	11.52	20.04	12.783	13.821
6/14/2017 21:49	22440.001	374	3.296	7.61	11.52	20.04	12.777	13.809
6/14/2017 21:50	22500.001	375	3.297	7.61	11.52	20.04	12.776	13.798
6/14/2017 21:51	22560.001	376	3.293	7.60	11.51	20.05	12.784	13.829
6/14/2017 21:52	22620.001	377	3.297	7.61	11.52	20.04	12.776	13.793
6/14/2017 21:53	22680.001	378	3.295	7.61	11.52	20.04	12.779	13.798
6/14/2017 21:54	22740.001	379	3.295	7.61	11.52	20.04	12.78	13.801
6/14/2017 21:55	22800.001	380	3.296	7.61	11.52	20.04	12.778	13.815
6/14/2017 21:56	22860.001	381	3.296	7.61	11.52	20.04	12.777	13.816
6/14/2017 21:57	22920.001	382	3.293	7.60	11.51	20.05	12.784	13.816
6/14/2017 21:58	22980.001	383	3.297	7.61	11.52	20.04	12.776	13.793
6/14/2017 21:59	23040.001	384	3.297	7.61	11.52	20.04	12.776	13.823
6/14/2017 22:00	23100.001	385	3.296	7.61	11.52	20.04	12.777	13.812
6/14/2017 22:01	23160.001	386	3.295	7.61	11.52	20.04	12.779	13.817
6/14/2017 22:02	23220.001	387	3.294	7.61	11.52	20.04	12.783	13.804
6/14/2017 22:03	23280.001	388	3.294	7.61	11.52	20.04	12.783	13.788
6/14/2017 22:04	23340.001	389	3.297	7.61	11.52	20.04	12.776	13.808
6/14/2017 22:05	23400.001	390	3.296	7.61	11.52	20.04	12.777	13.812
6/14/2017 22:06	23460.001	391	3.297	7.61	11.52	20.04	12.775	13.815
6/14/2017 22:07	23520.001	392	3.298	7.61	11.53	20.03	12.774	13.798

6/14/2017 22:08	23580.001	393	3.296	7.61	11.52	20.04	12.778	13.817
6/14/2017 22:09	23640.001	394	3.296	7.61	11.52	20.04	12.778	13.775
6/14/2017 22:10	23700.001	395	3.296	7.61	11.52	20.04	12.777	13.809
6/14/2017 22:11	23760.001	396	3.295	7.61	11.52	20.04	12.779	13.809
6/14/2017 22:12	23820.001	397	3.297	7.61	11.52	20.04	12.775	13.812
6/14/2017 22:13	23880.001	398	3.295	7.61	11.52	20.04	12.779	13.811
6/14/2017 22:14	23940.001	399	3.295	7.61	11.52	20.04	12.779	13.808
6/14/2017 22:15	24000.001	400	3.298	7.61	11.53	20.03	12.774	13.811
6/14/2017 22:16	24060.001	401	3.299	7.62	11.53	20.03	12.771	13.814
6/14/2017 22:17	24120.001	402	3.296	7.61	11.52	20.04	12.778	13.8
6/14/2017 22:18	24180.001	403	3.298	7.61	11.53	20.03	12.774	13.804
6/14/2017 22:19	24240.001	404	3.296	7.61	11.52	20.04	12.778	13.804
6/14/2017 22:20	24300.001	405	3.297	7.61	11.52	20.04	12.776	13.82
6/14/2017 22:21	24360.001	406	3.297	7.61	11.52	20.04	12.775	13.809
6/14/2017 22:22	24420.001	407	3.295	7.61	11.52	20.04	12.78	13.8
6/14/2017 22:23	24480.001	408	3.296	7.61	11.52	20.04	12.777	13.819
6/14/2017 22:24	24540.001	409	3.296	7.61	11.52	20.04	12.778	13.795
6/14/2017 22:25	24600.001	410	3.296	7.61	11.52	20.04	12.778	13.78
6/14/2017 22:26	24660.001	411	3.297	7.61	11.52	20.04	12.776	13.806
6/14/2017 22:27	24720.001	412	3.297	7.61	11.52	20.04	12.775	13.817
6/14/2017 22:28	24780.001	413	3.298	7.61	11.53	20.03	12.772	13.817
6/14/2017 22:29	24840.001	414	3.3	7.62	11.53	20.03	12.768	13.825
6/14/2017 22:30	24900.001	415	3.298	7.61	11.53	20.03	12.772	13.831
6/14/2017 22:31	24960.001	416	3.299	7.62	11.53	20.03	12.771	13.808
6/14/2017 22:32	25020.001	417	3.299	7.62	11.53	20.03	12.771	13.815
6/14/2017 22:33	25080.001	418	3.296	7.61	11.52	20.04	12.778	13.8
6/14/2017 22:34	25140.001	419	3.298	7.61	11.53	20.03	12.772	13.832
6/14/2017 22:35	25200.001	420	3.298	7.61	11.53	20.03	12.774	13.799
6/14/2017 22:36	25260.001	421	3.296	7.61	11.52	20.04	12.777	13.823
6/14/2017 22:37	25320.001	422	3.298	7.61	11.53	20.03	12.774	13.815
6/14/2017 22:38	25380.001	423	3.298	7.61	11.53	20.03	12.774	13.817
6/14/2017 22:39	25440.001	424	3.299	7.62	11.53	20.03	12.772	13.819
6/14/2017 22:40	25500.001	425	3.298	7.61	11.53	20.03	12.774	13.807
6/14/2017 22:41	25560.001	426	3.297	7.61	11.52	20.04	12.775	13.808
6/14/2017 22:42	25620.001	427	3.297	7.61	11.52	20.04	12.775	13.791
6/14/2017 22:43	25680.001	428	3.298	7.61	11.53	20.03	12.772	13.795
6/14/2017 22:44	25740.001	429	3.299	7.62	11.53	20.03	12.772	13.774
6/14/2017 22:45	25800.001	430	3.3	7.62	11.53	20.03	12.769	13.824
6/14/2017 22:46	25860.001	431	3.3	7.62	11.53	20.03	12.77	13.81
6/14/2017 22:47	25920.001	432	3.298	7.61	11.53	20.03	12.773	13.791
6/14/2017 22:48	25980.001	433	3.3	7.62	11.53	20.03	12.768	13.817
6/14/2017 22:49	26040.001	434	3.3	7.62	11.53	20.03	12.768	13.817
6/14/2017 22:50	26100.001	435	3.298	7.61	11.53	20.03	12.773	13.813
6/14/2017 22:51	26160.001	436	3.3	7.62	11.53	20.03	12.768	13.807
6/14/2017 22:52	26220.001	437	3.302	7.62	11.53	20.03	12.764	13.817
6/14/2017 22:53	26280.001	438	3.301	7.62	11.53	20.03	12.766	13.798
6/14/2017 22:54	26340.001	439	3.299	7.62	11.53	20.03	12.77	13.811

6/14/2017 22:55	26400.001	440	3.301	7.62	11.53	20.03	12.765	13.799
6/14/2017 22:56	26460.001	441	3.301	7.62	11.53	20.03	12.766	13.815
6/14/2017 22:57	26520.001	442	3.299	7.62	11.53	20.03	12.772	13.821
6/14/2017 22:58	26580.001	443	3.3	7.62	11.53	20.03	12.768	13.786
6/14/2017 22:59	26640.001	444	3.304	7.63	11.54	20.02	12.759	13.795
6/14/2017 23:00	26700.001	445	3.301	7.62	11.53	20.03	12.766	13.821
6/14/2017 23:01	26760.001	446	3.301	7.62	11.53	20.03	12.766	13.802
6/14/2017 23:02	26820.001	447	3.301	7.62	11.53	20.03	12.766	13.817
6/14/2017 23:03	26880.001	448	3.303	7.63	11.54	20.02	12.762	13.816
6/14/2017 23:04	26940.001	449	3.302	7.62	11.53	20.03	12.764	13.789
6/14/2017 23:05	27000.001	450	3.304	7.63	11.54	20.02	12.76	13.795
6/14/2017 23:06	27060.001	451	3.305	7.63	11.54	20.02	12.756	13.834
6/14/2017 23:07	27120.001	452	3.303	7.63	11.54	20.02	12.762	13.809
6/14/2017 23:08	27180.001	453	3.302	7.62	11.53	20.03	12.765	13.84
6/14/2017 23:09	27240.001	454	3.302	7.62	11.53	20.03	12.764	13.81
6/14/2017 23:10	27300.001	455	3.303	7.63	11.54	20.02	12.763	13.812
6/14/2017 23:11	27360.001	456	3.301	7.62	11.53	20.03	12.767	13.808
6/14/2017 23:12	27420.001	457	3.304	7.63	11.54	20.02	12.759	13.828
6/14/2017 23:13	27480.001	458	3.305	7.63	11.54	20.02	12.757	13.807
6/14/2017 23:14	27540.001	459	3.302	7.62	11.53	20.03	12.763	13.82
6/14/2017 23:15	27600.001	460	3.304	7.63	11.54	20.02	12.763	13.823
6/14/2017 23:16	27660.001	461	3.302	7.62	11.53	20.03	12.763	13.783
6/14/2017 23:17	27720.001	462	3.304	7.63	11.54	20.02	12.759	13.81
6/14/2017 23:18	27780.001	463	3.306	7.63	11.54	20.02	12.755	13.804
6/14/2017 23:19	27840.001	464	3.303	7.63	11.54	20.02	12.761	13.808
6/14/2017 23:20	27900.001	465	3.303	7.63	11.54	20.02	12.761	13.816
6/14/2017 23:21	27960.001	466	3.304	7.63	11.54	20.02	12.759	13.798
6/14/2017 23:22	28020.001	467	3.303	7.63	11.54	20.02	12.762	13.809
6/14/2017 23:23	28080.001	468	3.304	7.63	11.54	20.02	12.759	13.798
6/14/2017 23:24	28140.001	469	3.303	7.63	11.54	20.02	12.762	13.834
6/14/2017 23:25	28200.001	470	3.302	7.62	11.53	20.03	12.764	13.8
6/14/2017 23:26	28260.001	471	3.304	7.63	11.54	20.02	12.758	13.796
6/14/2017 23:27	28320.001	472	3.305	7.63	11.54	20.02	12.758	13.824
6/14/2017 23:28	28380.001	473	3.303	7.63	11.54	20.02	12.762	13.815
6/14/2017 23:29	28440.001	474	3.304	7.63	11.54	20.02	12.76	13.812
6/14/2017 23:30	28500.001	475	3.308	7.64	11.55	20.01	12.75	13.801
6/14/2017 23:31	28560.001	476	3.315	7.65	11.57	19.99	12.733	13.806
6/14/2017 23:32	28620.001	477	3.324	7.67	11.59	19.97	12.714	13.814
6/14/2017 23:33	28680.001	478	3.325	7.68	11.59	19.97	12.711	13.793
6/14/2017 23:34	28740.001	479	3.324	7.67	11.59	19.97	12.714	13.818
6/14/2017 23:35	28800.001	480	3.325	7.68	11.59	19.97	12.712	13.796
6/14/2017 23:36	28860.001	481	3.326	7.68	11.59	19.97	12.708	13.817
6/14/2017 23:37	28920.001	482	3.33	7.69	11.60	19.96	12.7	13.826
6/14/2017 23:38	28980.001	483	3.334	7.70	11.61	19.95	12.691	13.817
6/14/2017 23:39	29040.001	484	3.335	7.70	11.61	19.95	12.687	13.798
6/14/2017 23:40	29100.001	485	3.336	7.70	11.61	19.95	12.685	13.802
6/14/2017 23:41	29160.001	486	3.338	7.71	11.62	19.94	12.681	13.792

6/14/2017 23:42	29220.001	487	3.34	7.71	11.62	19.94	12.675	13.821
6/14/2017 23:43	29280.001	488	3.34	7.71	11.62	19.94	12.675	13.814
6/14/2017 23:44	29340.001	489	3.344	7.72	11.63	19.93	12.667	13.818
6/14/2017 23:45	29400.001	490	3.344	7.72	11.63	19.93	12.667	13.801
6/14/2017 23:46	29460.001	491	3.339	7.71	11.62	19.94	12.677	13.795
6/14/2017 23:47	29520.001	492	3.336	7.70	11.61	19.95	12.685	13.798
6/14/2017 23:48	29580.001	493	3.333	7.70	11.61	19.95	12.691	13.801
6/14/2017 23:49	29640.001	494	3.332	7.69	11.60	19.96	12.694	13.82
6/14/2017 23:50	29700.001	495	3.33	7.69	11.60	19.96	12.7	13.799
6/14/2017 23:51	29760.001	496	3.327	7.68	11.59	19.97	12.705	13.821
6/14/2017 23:52	29820.001	497	3.325	7.68	11.59	19.97	12.71	13.815
6/14/2017 23:53	29880.001	498	3.322	7.67	11.58	19.98	12.717	13.809
6/14/2017 23:54	29940.001	499	3.321	7.67	11.58	19.98	12.721	13.804
6/14/2017 23:55	30000.001	500	3.321	7.67	11.58	19.98	12.721	13.817
6/14/2017 23:56	30060.001	501	3.319	7.66	11.57	19.99	12.724	13.798
6/14/2017 23:57	30120.001	502	3.318	7.66	11.57	19.99	12.726	13.831
6/14/2017 23:58	30180.001	503	3.318	7.66	11.57	19.99	12.726	13.802
6/14/2017 23:59	30240.001	504	3.316	7.66	11.57	19.99	12.731	13.822
6/15/2017 0:00	30300.001	505	3.317	7.66	11.57	19.99	12.729	13.821
6/15/2017 0:01	30360.001	506	3.317	7.66	11.57	19.99	12.729	13.816
6/15/2017 0:02	30420.001	507	3.314	7.65	11.56	20.00	12.737	13.832
6/15/2017 0:03	30480.001	508	3.313	7.65	11.56	20.00	12.739	13.815
6/15/2017 0:04	30540.001	509	3.312	7.65	11.56	20.00	12.74	13.807
6/15/2017 0:05	30600.001	510	3.312	7.65	11.56	20.00	12.74	13.811
6/15/2017 0:06	30660.001	511	3.313	7.65	11.56	20.00	12.738	13.812
6/15/2017 0:07	30720.001	512	3.314	7.65	11.56	20.00	12.737	13.793
6/15/2017 0:08	30780.001	513	3.311	7.64	11.56	20.00	12.742	13.8
6/15/2017 0:09	30840.001	514	3.313	7.65	11.56	20.00	12.738	13.815
6/15/2017 0:10	30900.001	515	3.311	7.64	11.56	20.00	12.743	13.809
6/15/2017 0:11	30960.001	516	3.312	7.65	11.56	20.00	12.74	13.826
6/15/2017 0:12	31020.001	517	3.311	7.64	11.56	20.00	12.744	13.811
6/15/2017 0:13	31080.001	518	3.314	7.65	11.56	20.00	12.737	13.812
6/15/2017 0:14	31140.001	519	3.313	7.65	11.56	20.00	12.739	13.826
6/15/2017 0:15	31200.001	520	3.312	7.65	11.56	20.00	12.74	13.815
6/15/2017 0:16	31260.001	521	3.311	7.64	11.56	20.00	12.744	13.796
6/15/2017 0:17	31320.001	522	3.309	7.64	11.55	20.01	12.747	13.838
6/15/2017 0:18	31380.001	523	3.313	7.65	11.56	20.00	12.739	13.808
6/15/2017 0:19	31440.001	524	3.313	7.65	11.56	20.00	12.738	13.818
6/15/2017 0:20	31500.001	525	3.311	7.64	11.56	20.00	12.743	13.801
6/15/2017 0:21	31560.001	526	3.31	7.64	11.55	20.01	12.746	13.821
6/15/2017 0:22	31620.001	527	3.312	7.65	11.56	20.00	12.742	13.807
6/15/2017 0:23	31680.001	528	3.312	7.65	11.56	20.00	12.742	13.821
6/15/2017 0:24	31740.001	529	3.313	7.65	11.56	20.00	12.738	13.829
6/15/2017 0:25	31800.001	530	3.312	7.65	11.56	20.00	12.741	13.815
6/15/2017 0:26	31860.001	531	3.31	7.64	11.55	20.01	12.745	13.803
6/15/2017 0:27	31920.001	532	3.312	7.65	11.56	20.00	12.741	13.795
6/15/2017 0:28	31980.001	533	3.311	7.64	11.56	20.00	12.742	13.825

6/15/2017 0:29	32040.001	534	3.313	7.65	11.56	20.00	12.737	13.806
6/15/2017 0:30	32100.001	535	3.312	7.65	11.56	20.00	12.74	13.807
6/15/2017 0:31	32160.001	536	3.314	7.65	11.56	20.00	12.736	13.816
6/15/2017 0:32	32220.001	537	3.312	7.65	11.56	20.00	12.741	13.804
6/15/2017 0:33	32280.001	538	3.313	7.65	11.56	20.00	12.739	13.818
6/15/2017 0:34	32340.001	539	3.311	7.64	11.56	20.00	12.742	13.801
6/15/2017 0:35	32400.001	540	3.312	7.65	11.56	20.00	12.74	13.83
6/15/2017 0:36	32460.001	541	3.312	7.65	11.56	20.00	12.74	13.826
6/15/2017 0:37	32520.001	542	3.314	7.65	11.56	20.00	12.737	13.814
6/15/2017 0:38	32580.001	543	3.313	7.65	11.56	20.00	12.738	13.802
6/15/2017 0:39	32640.001	544	3.314	7.65	11.56	20.00	12.737	13.823
6/15/2017 0:40	32700.001	545	3.31	7.64	11.55	20.01	12.745	13.793
6/15/2017 0:41	32760.001	546	3.313	7.65	11.56	20.00	12.739	13.815
6/15/2017 0:42	32820.001	547	3.313	7.65	11.56	20.00	12.739	13.808
6/15/2017 0:43	32880.001	548	3.314	7.65	11.56	20.00	12.736	13.806
6/15/2017 0:44	32940.001	549	3.311	7.64	11.56	20.00	12.744	13.804
6/15/2017 0:45	33000.001	550	3.312	7.65	11.56	20.00	12.74	13.826
6/15/2017 0:46	33060.001	551	3.31	7.64	11.55	20.01	12.744	13.814
6/15/2017 0:47	33120.001	552	3.314	7.65	11.56	20.00	12.736	13.8
6/15/2017 0:48	33180.001	553	3.314	7.65	11.56	20.00	12.737	13.795
6/15/2017 0:49	33240.001	554	3.313	7.65	11.56	20.00	12.737	13.813
6/15/2017 0:50	33300.001	555	3.314	7.65	11.56	20.00	12.736	13.84
6/15/2017 0:51	33360.001	556	3.314	7.65	11.56	20.00	12.736	13.831
6/15/2017 0:52	33420.001	557	3.312	7.65	11.56	20.00	12.741	13.8
6/15/2017 0:53	33480.001	558	3.312	7.65	11.56	20.00	12.74	13.812
6/15/2017 0:54	33540.001	559	3.313	7.65	11.56	20.00	12.738	13.819
6/15/2017 0:55	33600.001	560	3.312	7.65	11.56	20.00	12.741	13.816
6/15/2017 0:56	33660.001	561	3.314	7.65	11.56	20.00	12.735	13.796
6/15/2017 0:57	33720.001	562	3.316	7.66	11.57	19.99	12.732	13.801
6/15/2017 0:58	33780.001	563	3.313	7.65	11.56	20.00	12.739	13.831
6/15/2017 0:59	33840.001	564	3.314	7.65	11.56	20.00	12.737	13.798
6/15/2017 1:00	33900.001	565	3.313	7.65	11.56	20.00	12.738	13.798
6/15/2017 1:01	33960.001	566	3.314	7.65	11.56	20.00	12.735	13.82
6/15/2017 1:02	34020.001	567	3.313	7.65	11.56	20.00	12.738	13.839
6/15/2017 1:03	34080.001	568	3.313	7.65	11.56	20.00	12.737	13.798
6/15/2017 1:04	34140.001	569	3.311	7.64	11.56	20.00	12.742	13.823
6/15/2017 1:05	34200.001	570	3.312	7.65	11.56	20.00	12.74	13.79
6/15/2017 1:06	34260.001	571	3.313	7.65	11.56	20.00	12.738	13.803
6/15/2017 1:07	34320.001	572	3.313	7.65	11.56	20.00	12.738	13.799
6/15/2017 1:08	34380.001	573	3.314	7.65	11.56	20.00	12.735	13.825
6/15/2017 1:09	34440.001	574	3.314	7.65	11.56	20.00	12.736	13.79
6/15/2017 1:10	34500.001	575	3.315	7.65	11.57	19.99	12.734	13.806
6/15/2017 1:11	34560.001	576	3.313	7.65	11.56	20.00	12.737	13.812
6/15/2017 1:12	34620.001	577	3.316	7.66	11.57	19.99	12.731	13.794
6/15/2017 1:13	34680.001	578	3.316	7.66	11.57	19.99	12.731	13.82
6/15/2017 1:14	34740.001	579	3.316	7.66	11.57	19.99	12.731	13.8
6/15/2017 1:15	34800.001	580	3.317	7.66	11.57	19.99	12.729	13.811

6/15/2017 1:16	34860.001	581	3.314	7.65	11.56	20.00	12.735	13.809
6/15/2017 1:17	34920.001	582	3.314	7.65	11.56	20.00	12.736	13.805
6/15/2017 1:18	34980.001	583	3.318	7.66	11.57	19.99	12.727	13.801
6/15/2017 1:19	35040.001	584	3.315	7.65	11.57	19.99	12.734	13.839
6/15/2017 1:20	35100.001	585	3.315	7.65	11.57	19.99	12.735	13.809
6/15/2017 1:21	35160.001	586	3.315	7.65	11.57	19.99	12.734	13.819
6/15/2017 1:22	35220.001	587	3.315	7.65	11.57	19.99	12.735	13.814
6/15/2017 1:23	35280.001	588	3.318	7.66	11.57	19.99	12.727	13.831
6/15/2017 1:24	35340.001	589	3.317	7.66	11.57	19.99	12.73	13.799
6/15/2017 1:25	35400.001	590	3.316	7.66	11.57	19.99	12.732	13.802
6/15/2017 1:26	35460.001	591	3.316	7.66	11.57	19.99	12.733	13.81
6/15/2017 1:27	35520.001	592	3.315	7.65	11.57	19.99	12.734	13.824
6/15/2017 1:28	35580.001	593	3.316	7.66	11.57	19.99	12.731	13.822
6/15/2017 1:29	35640.001	594	3.316	7.66	11.57	19.99	12.731	13.818
6/15/2017 1:30	35700.001	595	3.316	7.66	11.57	19.99	12.731	13.815
6/15/2017 1:31	35760.001	596	3.316	7.66	11.57	19.99	12.732	13.811
6/15/2017 1:32	35820.001	597	3.315	7.65	11.57	19.99	12.735	13.818
6/15/2017 1:33	35880.001	598	3.315	7.65	11.57	19.99	12.733	13.798
6/15/2017 1:34	35940.001	599	3.317	7.66	11.57	19.99	12.73	13.801
6/15/2017 1:35	36000.001	600	3.315	7.65	11.57	19.99	12.734	13.803
6/15/2017 1:36	36060.001	601	3.317	7.66	11.57	19.99	12.729	13.826
6/15/2017 1:37	36120.001	602	3.316	7.66	11.57	19.99	12.731	13.809
6/15/2017 1:38	36180.001	603	3.318	7.66	11.57	19.99	12.726	13.795
6/15/2017 1:39	36240.001	604	3.317	7.66	11.57	19.99	12.73	13.829
6/15/2017 1:40	36300.001	605	3.321	7.67	11.58	19.98	12.72	13.815
6/15/2017 1:41	36360.001	606	3.328	7.68	11.60	19.96	12.705	13.829
6/15/2017 1:42	36420.001	607	3.335	7.70	11.61	19.95	12.688	13.811
6/15/2017 1:43	36480.001	608	3.339	7.71	11.62	19.94	12.679	13.808
6/15/2017 1:44	36540.001	609	3.345	7.72	11.63	19.93	12.664	13.823
6/15/2017 1:45	36600.001	610	3.348	7.73	11.64	19.92	12.658	13.805
6/15/2017 1:46	36660.001	611	3.348	7.73	11.64	19.92	12.658	13.821
6/15/2017 1:47	36720.001	612	3.344	7.72	11.63	19.93	12.667	13.8
6/15/2017 1:48	36780.001	613	3.343	7.72	11.63	19.93	12.668	13.821
6/15/2017 1:49	36840.001	614	3.339	7.71	11.62	19.94	12.678	13.836
6/15/2017 1:50	36900.001	615	3.336	7.70	11.61	19.95	12.686	13.82
6/15/2017 1:51	36960.001	616	3.335	7.70	11.61	19.95	12.689	13.818
6/15/2017 1:52	37020.001	617	3.332	7.69	11.60	19.96	12.694	13.819
6/15/2017 1:53	37080.001	618	3.333	7.70	11.61	19.95	12.691	13.809
6/15/2017 1:54	37140.001	619	3.333	7.70	11.61	19.95	12.693	13.807
6/15/2017 1:55	37200.001	620	3.33	7.69	11.60	19.96	12.699	13.806
6/15/2017 1:56	37260.001	621	3.329	7.69	11.60	19.96	12.701	13.809
6/15/2017 1:57	37320.001	622	3.328	7.68	11.60	19.96	12.703	13.817
6/15/2017 1:58	37380.001	623	3.326	7.68	11.59	19.97	12.708	13.81
6/15/2017 1:59	37440.001	624	3.327	7.68	11.59	19.97	12.706	13.818
6/15/2017 2:00	37500.001	625	3.325	7.68	11.59	19.97	12.71	13.814
6/15/2017 2:01	37560.001	626	3.325	7.68	11.59	19.97	12.711	13.826
6/15/2017 2:02	37620.001	627	3.325	7.68	11.59	19.97	12.711	13.806

6/15/2017 2:03	37680.001	628	3.323	7.67	11.58	19.98	12.715	13.792
6/15/2017 2:04	37740.001	629	3.322	7.67	11.58	19.98	12.717	13.823
6/15/2017 2:05	37800.001	630	3.324	7.67	11.59	19.97	12.713	13.804
6/15/2017 2:06	37860.001	631	3.323	7.67	11.58	19.98	12.716	13.823
6/15/2017 2:07	37920.001	632	3.324	7.67	11.59	19.97	12.714	13.772
6/15/2017 2:08	37980.001	633	3.323	7.67	11.58	19.98	12.715	13.801
6/15/2017 2:09	38040.001	634	3.323	7.67	11.58	19.98	12.715	13.817
6/15/2017 2:10	38100.001	635	3.322	7.67	11.58	19.98	12.718	13.811
6/15/2017 2:11	38160.001	636	3.321	7.67	11.58	19.98	12.721	13.807
6/15/2017 2:12	38220.001	637	3.322	7.67	11.58	19.98	12.718	13.822
6/15/2017 2:13	38280.001	638	3.32	7.67	11.58	19.98	12.723	13.81
6/15/2017 2:14	38340.001	639	3.32	7.67	11.58	19.98	12.722	13.819
6/15/2017 2:15	38400.001	640	3.321	7.67	11.58	19.98	12.719	13.813
6/15/2017 2:16	38460.001	641	3.319	7.66	11.57	19.99	12.724	13.824
6/15/2017 2:17	38520.001	642	3.321	7.67	11.58	19.98	12.719	13.817
6/15/2017 2:18	38580.001	643	3.317	7.66	11.57	19.99	12.728	13.802
6/15/2017 2:19	38640.001	644	3.319	7.66	11.57	19.99	12.726	13.806
6/15/2017 2:20	38700.001	645	3.318	7.66	11.57	19.99	12.728	13.82
6/15/2017 2:21	38760.001	646	3.319	7.66	11.57	19.99	12.725	13.822
6/15/2017 2:22	38820.001	647	3.321	7.67	11.58	19.98	12.721	13.787
6/15/2017 2:23	38880.001	648	3.321	7.67	11.58	19.98	12.719	13.81
6/15/2017 2:24	38940.001	649	3.319	7.66	11.57	19.99	12.724	13.812
6/15/2017 2:25	39000.001	650	3.318	7.66	11.57	19.99	12.726	13.818
6/15/2017 2:26	39060.001	651	3.319	7.66	11.57	19.99	12.725	13.801
6/15/2017 2:27	39120.001	652	3.319	7.66	11.57	19.99	12.724	13.801
6/15/2017 2:28	39180.001	653	3.321	7.67	11.58	19.98	12.721	13.837
6/15/2017 2:29	39240.001	654	3.32	7.67	11.58	19.98	12.722	13.826
6/15/2017 2:30	39300.001	655	3.321	7.67	11.58	19.98	12.72	13.816
6/15/2017 2:31	39360.001	656	3.319	7.66	11.57	19.99	12.724	13.795
6/15/2017 2:32	39420.001	657	3.319	7.66	11.57	19.99	12.724	13.836
6/15/2017 2:33	39480.001	658	3.32	7.67	11.58	19.98	12.721	13.806
6/15/2017 2:34	39540.001	659	3.322	7.67	11.58	19.98	12.719	13.79
6/15/2017 2:35	39600.001	660	3.319	7.66	11.57	19.99	12.724	13.826
6/15/2017 2:36	39660.001	661	3.321	7.67	11.58	19.98	12.72	13.805
6/15/2017 2:37	39720.001	662	3.322	7.67	11.58	19.98	12.717	13.787
6/15/2017 2:38	39780.001	663	3.327	7.68	11.59	19.97	12.706	13.816
6/15/2017 2:39	39840.001	664	3.333	7.70	11.61	19.95	12.691	13.802
6/15/2017 2:40	39900.001	665	3.334	7.70	11.61	19.95	12.69	13.809
6/15/2017 2:41	39960.001	666	3.338	7.71	11.62	19.94	12.68	13.825
6/15/2017 2:42	40020.001	667	3.34	7.71	11.62	19.94	12.676	13.826
6/15/2017 2:43	40080.001	668	3.343	7.72	11.63	19.93	12.669	13.822
6/15/2017 2:44	40140.001	669	3.345	7.72	11.63	19.93	12.665	13.824
6/15/2017 2:45	40200.001	670	3.346	7.73	11.64	19.92	12.663	13.817
6/15/2017 2:46	40260.001	671	3.348	7.73	11.64	19.92	12.657	13.805
6/15/2017 2:47	40320.001	672	3.347	7.73	11.64	19.92	12.66	13.81
6/15/2017 2:48	40380.001	673	3.351	7.74	11.65	19.91	12.652	13.783
6/15/2017 2:49	40440.001	674	3.35	7.73	11.65	19.91	12.653	13.811

6/15/2017 2:50	40500.001	675	3.352	7.74	11.65	19.91	12.648	13.805
6/15/2017 2:51	40560.001	676	3.353	7.74	11.65	19.91	12.646	13.805
6/15/2017 2:52	40620.001	677	3.351	7.74	11.65	19.91	12.651	13.804
6/15/2017 2:53	40680.001	678	3.35	7.73	11.65	19.91	12.653	13.825
6/15/2017 2:54	40740.001	679	3.352	7.74	11.65	19.91	12.648	13.808
6/15/2017 2:55	40800.001	680	3.352	7.74	11.65	19.91	12.649	13.801
6/15/2017 2:56	40860.001	681	3.353	7.74	11.65	19.91	12.647	13.812
6/15/2017 2:57	40920.001	682	3.352	7.74	11.65	19.91	12.648	13.808
6/15/2017 2:58	40980.001	683	3.352	7.74	11.65	19.91	12.648	13.795
6/15/2017 2:59	41040.001	684	3.354	7.74	11.66	19.90	12.643	13.777
6/15/2017 3:00	41100.001	685	3.352	7.74	11.65	19.91	12.649	13.797
6/15/2017 3:01	41160.001	686	3.351	7.74	11.65	19.91	12.651	13.815
6/15/2017 3:02	41220.001	687	3.352	7.74	11.65	19.91	12.649	13.796
6/15/2017 3:03	41280.001	688	3.353	7.74	11.65	19.91	12.647	13.793
6/15/2017 3:04	41340.001	689	3.352	7.74	11.65	19.91	12.647	13.828
6/15/2017 3:05	41400.001	690	3.353	7.74	11.65	19.91	12.647	13.795
6/15/2017 3:06	41460.001	691	3.349	7.73	11.64	19.92	12.654	13.81
6/15/2017 3:07	41520.001	692	3.351	7.74	11.65	19.91	12.65	13.812
6/15/2017 3:08	41580.001	693	3.348	7.73	11.64	19.92	12.658	13.817
6/15/2017 3:09	41640.001	694	3.351	7.74	11.65	19.91	12.65	13.8
6/15/2017 3:10	41700.001	695	3.35	7.73	11.65	19.91	12.654	13.804
6/15/2017 3:11	41760.001	696	3.35	7.73	11.65	19.91	12.653	13.798
6/15/2017 3:12	41820.001	697	3.35	7.73	11.65	19.91	12.652	13.812
6/15/2017 3:13	41880.001	698	3.35	7.73	11.65	19.91	12.652	13.811
6/15/2017 3:14	41940.001	699	3.349	7.73	11.64	19.92	12.656	13.804
6/15/2017 3:15	42000.001	700	3.348	7.73	11.64	19.92	12.658	13.815
6/15/2017 3:16	42060.001	701	3.347	7.73	11.64	19.92	12.659	13.81
6/15/2017 3:17	42120.001	702	3.349	7.73	11.64	19.92	12.657	13.809
6/15/2017 3:18	42180.001	703	3.348	7.73	11.64	19.92	12.657	13.813
6/15/2017 3:19	42240.001	704	3.346	7.73	11.64	19.92	12.662	13.795
6/15/2017 3:20	42300.001	705	3.346	7.73	11.64	19.92	12.662	13.811
6/15/2017 3:21	42360.001	706	3.346	7.73	11.64	19.92	12.662	13.82
6/15/2017 3:22	42420.001	707	3.346	7.73	11.64	19.92	12.663	13.808
6/15/2017 3:23	42480.001	708	3.346	7.73	11.64	19.92	12.661	13.808
6/15/2017 3:24	42540.001	709	3.344	7.72	11.63	19.93	12.666	13.836
6/15/2017 3:25	42600.001	710	3.345	7.72	11.63	19.93	12.666	13.812
6/15/2017 3:26	42660.001	711	3.344	7.72	11.63	19.93	12.667	13.792
6/15/2017 3:27	42720.001	712	3.345	7.72	11.63	19.93	12.663	13.812
6/15/2017 3:28	42780.001	713	3.347	7.73	11.64	19.92	12.66	13.837
6/15/2017 3:29	42840.001	714	3.343	7.72	11.63	19.93	12.669	13.801
6/15/2017 3:30	42900.001	715	3.343	7.72	11.63	19.93	12.67	13.812
6/15/2017 3:31	42960.001	716	3.342	7.72	11.63	19.93	12.671	13.813
6/15/2017 3:32	43020.001	717	3.34	7.71	11.62	19.94	12.676	13.801
6/15/2017 3:33	43080.001	718	3.338	7.71	11.62	19.94	12.68	13.827
6/15/2017 3:34	43140.001	719	3.336	7.70	11.61	19.95	12.685	13.812
6/15/2017 3:35	43200.001	720	3.337	7.70	11.62	19.94	12.683	13.81
6/15/2017 3:36	43260.001	721	3.336	7.70	11.61	19.95	12.685	13.815

6/15/2017 3:37	43320.001	722	3.334	7.70	11.61	19.95	12.69	13.789
6/15/2017 3:38	43380.001	723	3.332	7.69	11.60	19.96	12.694	13.812
6/15/2017 3:39	43440.001	724	3.329	7.69	11.60	19.96	12.7	13.805
6/15/2017 3:40	43500.001	725	3.329	7.69	11.60	19.96	12.701	13.806
6/15/2017 3:41	43560.001	726	3.329	7.69	11.60	19.96	12.7	13.789
6/15/2017 3:42	43620.001	727	3.33	7.69	11.60	19.96	12.698	13.792
6/15/2017 3:43	43680.001	728	3.325	7.68	11.59	19.97	12.71	13.803
6/15/2017 3:44	43740.001	729	3.326	7.68	11.59	19.97	12.708	13.817
6/15/2017 3:45	43800.001	730	3.325	7.68	11.59	19.97	12.71	13.808
6/15/2017 3:46	43860.001	731	3.326	7.68	11.59	19.97	12.708	13.814
6/15/2017 3:47	43920.001	732	3.326	7.68	11.59	19.97	12.709	13.804
6/15/2017 3:48	43980.001	733	3.323	7.67	11.58	19.98	12.716	13.804
6/15/2017 3:49	44040.001	734	3.326	7.68	11.59	19.97	12.709	13.793
6/15/2017 3:50	44100.001	735	3.324	7.67	11.59	19.97	12.713	13.815
6/15/2017 3:51	44160.001	736	3.325	7.68	11.59	19.97	12.711	13.819
6/15/2017 3:52	44220.001	737	3.323	7.67	11.58	19.98	12.716	13.807
6/15/2017 3:53	44280.001	738	3.321	7.67	11.58	19.98	12.72	13.836
6/15/2017 3:54	44340.001	739	3.324	7.67	11.59	19.97	12.714	13.8
6/15/2017 3:55	44400.001	740	3.323	7.67	11.58	19.98	12.716	13.81
6/15/2017 3:56	44460.001	741	3.322	7.67	11.58	19.98	12.717	13.812
6/15/2017 3:57	44520.001	742	3.321	7.67	11.58	19.98	12.72	13.812
6/15/2017 3:58	44580.001	743	3.323	7.67	11.58	19.98	12.716	13.805
6/15/2017 3:59	44640.001	744	3.32	7.67	11.58	19.98	12.722	13.788
6/15/2017 4:00	44700.001	745	3.32	7.67	11.58	19.98	12.723	13.811
6/15/2017 4:01	44760.001	746	3.32	7.67	11.58	19.98	12.723	13.795
6/15/2017 4:02	44820.001	747	3.322	7.67	11.58	19.98	12.717	13.814
6/15/2017 4:03	44880.001	748	3.32	7.67	11.58	19.98	12.723	13.808
6/15/2017 4:04	44940.001	749	3.321	7.67	11.58	19.98	12.72	13.803
6/15/2017 4:05	45000.001	750	3.321	7.67	11.58	19.98	12.719	13.793
6/15/2017 4:06	45060.001	751	3.32	7.67	11.58	19.98	12.722	13.812
6/15/2017 4:07	45120.001	752	3.321	7.67	11.58	19.98	12.721	13.823
6/15/2017 4:08	45180.001	753	3.32	7.67	11.58	19.98	12.721	13.815
6/15/2017 4:09	45240.001	754	3.32	7.67	11.58	19.98	12.721	13.809
6/15/2017 4:10	45300.001	755	3.319	7.66	11.57	19.99	12.725	13.814
6/15/2017 4:11	45360.001	756	3.322	7.67	11.58	19.98	12.717	13.823
6/15/2017 4:12	45420.001	757	3.323	7.67	11.58	19.98	12.715	13.808
6/15/2017 4:13	45480.001	758	3.321	7.67	11.58	19.98	12.719	13.828
6/15/2017 4:14	45540.001	759	3.321	7.67	11.58	19.98	12.719	13.809
6/15/2017 4:15	45600.001	760	3.322	7.67	11.58	19.98	12.717	13.784
6/15/2017 4:16	45660.001	761	3.319	7.66	11.57	19.99	12.725	13.811
6/15/2017 4:17	45720.001	762	3.322	7.67	11.58	19.98	12.718	13.81
6/15/2017 4:18	45780.001	763	3.319	7.66	11.57	19.99	12.724	13.813
6/15/2017 4:19	45840.001	764	3.322	7.67	11.58	19.98	12.718	13.795
6/15/2017 4:20	45900.001	765	3.321	7.67	11.58	19.98	12.72	13.831
6/15/2017 4:21	45960.001	766	3.322	7.67	11.58	19.98	12.718	13.807
6/15/2017 4:22	46020.001	767	3.319	7.66	11.57	19.99	12.725	13.824
6/15/2017 4:23	46080.001	768	3.321	7.67	11.58	19.98	12.72	13.813

6/15/2017 4:24	46140.001	769	3.32	7.67	11.58	19.98	12.722	13.821
6/15/2017 4:25	46200.001	770	3.319	7.66	11.57	19.99	12.724	13.81
6/15/2017 4:26	46260.001	771	3.321	7.67	11.58	19.98	12.721	13.823
6/15/2017 4:27	46320.001	772	3.319	7.66	11.57	19.99	12.724	13.803
6/15/2017 4:28	46380.001	773	3.32	7.67	11.58	19.98	12.723	13.8
6/15/2017 4:29	46440.001	774	3.318	7.66	11.57	19.99	12.726	13.809
6/15/2017 4:30	46500.001	775	3.321	7.67	11.58	19.98	12.72	13.81
6/15/2017 4:31	46560.001	776	3.318	7.66	11.57	19.99	12.726	13.825
6/15/2017 4:32	46620.001	777	3.32	7.67	11.58	19.98	12.723	13.825
6/15/2017 4:33	46680.001	778	3.32	7.67	11.58	19.98	12.722	13.83
6/15/2017 4:34	46740.001	779	3.321	7.67	11.58	19.98	12.719	13.822
6/15/2017 4:35	46800.001	780	3.32	7.67	11.58	19.98	12.722	13.814
6/15/2017 4:36	46860.001	781	3.32	7.67	11.58	19.98	12.722	13.812
6/15/2017 4:37	46920.001	782	3.32	7.67	11.58	19.98	12.723	13.808
6/15/2017 4:38	46980.001	783	3.318	7.66	11.57	19.99	12.727	13.806
6/15/2017 4:39	47040.001	784	3.321	7.67	11.58	19.98	12.721	13.8
6/15/2017 4:40	47100.001	785	3.32	7.67	11.58	19.98	12.723	13.801
6/15/2017 4:41	47160.001	786	3.32	7.67	11.58	19.98	12.723	13.801
6/15/2017 4:42	47220.001	787	3.318	7.66	11.57	19.99	12.728	13.828
6/15/2017 4:43	47280.001	788	3.318	7.66	11.57	19.99	12.727	13.797
6/15/2017 4:44	47340.001	789	3.321	7.67	11.58	19.98	12.721	13.828
6/15/2017 4:45	47400.001	790	3.32	7.67	11.58	19.98	12.723	13.815
6/15/2017 4:46	47460.001	791	3.319	7.66	11.57	19.99	12.724	13.828
6/15/2017 4:47	47520.001	792	3.317	7.66	11.57	19.99	12.728	13.822
6/15/2017 4:48	47580.001	793	3.321	7.67	11.58	19.98	12.719	13.812
6/15/2017 4:49	47640.001	794	3.317	7.66	11.57	19.99	12.729	13.809
6/15/2017 4:50	47700.001	795	3.32	7.67	11.58	19.98	12.721	13.827
6/15/2017 4:51	47760.001	796	3.317	7.66	11.57	19.99	12.73	13.826
6/15/2017 4:52	47820.001	797	3.317	7.66	11.57	19.99	12.73	13.814
6/15/2017 4:53	47880.001	798	3.318	7.66	11.57	19.99	12.727	13.821
6/15/2017 4:54	47940.001	799	3.32	7.67	11.58	19.98	12.723	13.806
6/15/2017 4:55	48000.001	800	3.317	7.66	11.57	19.99	12.729	13.82
6/15/2017 4:56	48060.001	801	3.319	7.66	11.57	19.99	12.724	13.817
6/15/2017 4:57	48120.001	802	3.319	7.66	11.57	19.99	12.724	13.816
6/15/2017 4:58	48180.001	803	3.317	7.66	11.57	19.99	12.73	13.814
6/15/2017 4:59	48240.001	804	3.32	7.67	11.58	19.98	12.723	13.807
6/15/2017 5:00	48300.001	805	3.319	7.66	11.57	19.99	12.724	13.815
6/15/2017 5:01	48360.001	806	3.317	7.66	11.57	19.99	12.728	13.799
6/15/2017 5:02	48420.001	807	3.318	7.66	11.57	19.99	12.728	13.812
6/15/2017 5:03	48480.001	808	3.317	7.66	11.57	19.99	12.729	13.814
6/15/2017 5:04	48540.001	809	3.317	7.66	11.57	19.99	12.73	13.817
6/15/2017 5:05	48600.001	810	3.317	7.66	11.57	19.99	12.73	13.812
6/15/2017 5:06	48660.001	811	3.316	7.66	11.57	19.99	12.731	13.799
6/15/2017 5:07	48720.001	812	3.317	7.66	11.57	19.99	12.729	13.826
6/15/2017 5:08	48780.001	813	3.317	7.66	11.57	19.99	12.728	13.826
6/15/2017 5:09	48840.001	814	3.319	7.66	11.57	19.99	12.724	13.817
6/15/2017 5:10	48900.001	815	3.316	7.66	11.57	19.99	12.731	13.832

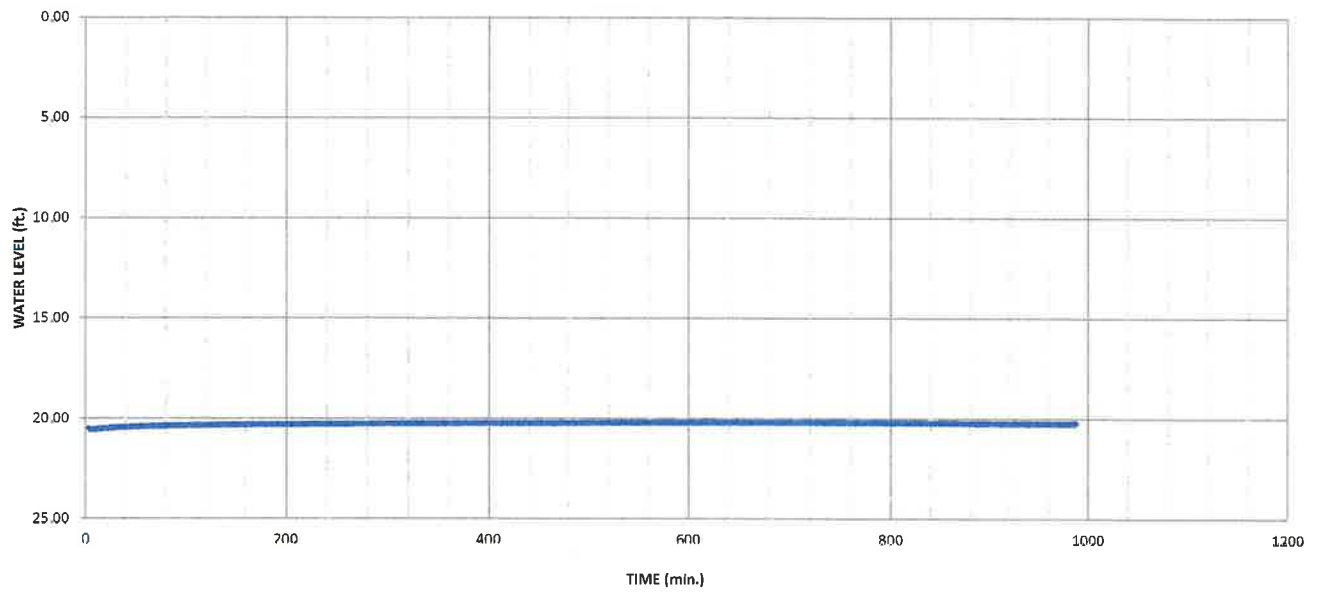
6/15/2017 5:11	48960.001	816	3.316	7.66	11.57	19.99	12.732	13.834
6/15/2017 5:12	49020.001	817	3.317	7.66	11.57	19.99	12.729	13.811
6/15/2017 5:13	49080.001	818	3.317	7.66	11.57	19.99	12.729	13.806
6/15/2017 5:14	49140.001	819	3.315	7.65	11.57	19.99	12.735	13.815
6/15/2017 5:15	49200.001	820	3.316	7.66	11.57	19.99	12.731	13.824
6/15/2017 5:16	49260.001	821	3.316	7.66	11.57	19.99	12.733	13.807
6/15/2017 5:17	49320.001	822	3.316	7.66	11.57	19.99	12.732	13.814
6/15/2017 5:18	49380.001	823	3.316	7.66	11.57	19.99	12.731	13.815
6/15/2017 5:19	49440.001	824	3.316	7.66	11.57	19.99	12.732	13.809
6/15/2017 5:20	49500.001	825	3.316	7.66	11.57	19.99	12.732	13.817
6/15/2017 5:21	49560.001	826	3.314	7.65	11.56	20.00	12.736	13.832
6/15/2017 5:22	49620.001	827	3.316	7.66	11.57	19.99	12.73	13.802
6/15/2017 5:23	49680.001	828	3.316	7.66	11.57	19.99	12.731	13.829
6/15/2017 5:24	49740.001	829	3.314	7.65	11.56	20.00	12.737	13.807
6/15/2017 5:25	49800.001	830	3.317	7.66	11.57	19.99	12.729	13.821
6/15/2017 5:26	49860.001	831	3.317	7.66	11.57	19.99	12.729	13.801
6/15/2017 5:27	49920.001	832	3.314	7.65	11.56	20.00	12.735	13.816
6/15/2017 5:28	49980.001	833	3.315	7.65	11.57	19.99	12.734	13.815
6/15/2017 5:29	50040.001	834	3.315	7.65	11.57	19.99	12.735	13.809
6/15/2017 5:30	50100.001	835	3.316	7.66	11.57	19.99	12.732	13.804
6/15/2017 5:31	50160.001	836	3.316	7.66	11.57	19.99	12.731	13.827
6/15/2017 5:32	50220.001	837	3.315	7.65	11.57	19.99	12.734	13.801
6/15/2017 5:33	50280.001	838	3.317	7.66	11.57	19.99	12.729	13.831
6/15/2017 5:34	50340.001	839	3.317	7.66	11.57	19.99	12.729	13.803
6/15/2017 5:35	50400.001	840	3.314	7.65	11.56	20.00	12.736	13.828
6/15/2017 5:36	50460.001	841	3.315	7.65	11.57	19.99	12.733	13.806
6/15/2017 5:37	50520.001	842	3.315	7.65	11.57	19.99	12.735	13.801
6/15/2017 5:38	50580.001	843	3.314	7.65	11.56	20.00	12.736	13.817
6/15/2017 5:39	50640.001	844	3.316	7.66	11.57	19.99	12.732	13.812
6/15/2017 5:40	50700.001	845	3.314	7.65	11.56	20.00	12.736	13.798
6/15/2017 5:41	50760.001	846	3.315	7.65	11.57	19.99	12.735	13.794
6/15/2017 5:42	50820.001	847	3.314	7.65	11.56	20.00	12.736	13.796
6/15/2017 5:43	50880.001	848	3.315	7.65	11.57	19.99	12.735	13.819
6/15/2017 5:44	50940.001	849	3.314	7.65	11.56	20.00	12.735	13.821
6/15/2017 5:45	51000.001	850	3.317	7.66	11.57	19.99	12.73	13.833
6/15/2017 5:46	51060.001	851	3.314	7.65	11.56	20.00	12.737	13.804
6/15/2017 5:47	51120.001	852	3.315	7.65	11.57	19.99	12.734	13.813
6/15/2017 5:48	51180.001	853	3.313	7.65	11.56	20.00	12.739	13.811
6/15/2017 5:49	51240.001	854	3.313	7.65	11.56	20.00	12.738	13.803
6/15/2017 5:50	51300.001	855	3.315	7.65	11.57	19.99	12.734	13.802
6/15/2017 5:51	51360.001	856	3.312	7.65	11.56	20.00	12.741	13.815
6/15/2017 5:52	51420.001	857	3.316	7.66	11.57	19.99	12.732	13.828
6/15/2017 5:53	51480.001	858	3.315	7.65	11.57	19.99	12.734	13.811
6/15/2017 5:54	51540.001	859	3.314	7.65	11.56	20.00	12.735	13.793
6/15/2017 5:55	51600.001	860	3.314	7.65	11.56	20.00	12.736	13.824
6/15/2017 5:56	51660.001	861	3.313	7.65	11.56	20.00	12.739	13.826
6/15/2017 5:57	51720.001	862	3.314	7.65	11.56	20.00	12.736	13.802

6/15/2017 5:58	51780.001	863	3.315	7.65	11.57	19.99	12.734	13.824
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6/15/2017 6:00	51900.001	865	3.315	7.65	11.57	19.99	12.734	13.814
6/15/2017 6:01	51960.001	866	3.315	7.65	11.57	19.99	12.734	13.817
6/15/2017 6:02	52020.001	867	3.313	7.65	11.56	20.00	12.738	13.82
6/15/2017 6:03	52080.001	868	3.315	7.65	11.57	19.99	12.735	13.814
6/15/2017 6:04	52140.001	869	3.313	7.65	11.56	20.00	12.738	13.808
6/15/2017 6:05	52200.001	870	3.313	7.65	11.56	20.00	12.739	13.794
6/15/2017 6:06	52260.001	871	3.313	7.65	11.56	20.00	12.738	13.808
6/15/2017 6:07	52320.001	872	3.313	7.65	11.56	20.00	12.739	13.811
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6/15/2017 6:11	52560.001	876	3.311	7.64	11.56	20.00	12.743	13.81
6/15/2017 6:12	52620.001	877	3.313	7.65	11.56	20.00	12.738	13.798
6/15/2017 6:13	52680.001	878	3.314	7.65	11.56	20.00	12.736	13.817
6/15/2017 6:14	52740.001	879	3.312	7.65	11.56	20.00	12.74	13.828
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6/15/2017 6:17	52920.001	882	3.312	7.65	11.56	20.00	12.742	13.826
6/15/2017 6:18	52980.001	883	3.311	7.64	11.56	20.00	12.743	13.801
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6/15/2017 6:20	53100.001	885	3.313	7.65	11.56	20.00	12.739	13.81
6/15/2017 6:21	53160.001	886	3.311	7.64	11.56	20.00	12.743	13.809
6/15/2017 6:22	53220.001	887	3.31	7.64	11.55	20.01	12.745	13.825
6/15/2017 6:23	53280.001	888	3.31	7.64	11.55	20.01	12.745	13.798
6/15/2017 6:24	53340.001	889	3.312	7.65	11.56	20.00	12.741	13.806
6/15/2017 6:25	53400.001	890	3.312	7.65	11.56	20.00	12.742	13.816
6/15/2017 6:26	53460.001	891	3.31	7.64	11.55	20.01	12.744	13.803
6/15/2017 6:27	53520.001	892	3.31	7.64	11.55	20.01	12.744	13.803
6/15/2017 6:28	53580.001	893	3.31	7.64	11.55	20.01	12.745	13.828
6/15/2017 6:29	53640.001	894	3.31	7.64	11.55	20.01	12.745	13.816
6/15/2017 6:30	53700.001	895	3.309	7.64	11.55	20.01	12.747	13.802
6/15/2017 6:31	53760.001	896	3.311	7.64	11.56	20.00	12.742	13.81
6/15/2017 6:32	53820.001	897	3.31	7.64	11.55	20.01	12.745	13.808
6/15/2017 6:33	53880.001	898	3.309	7.64	11.55	20.01	12.748	13.806
6/15/2017 6:34	53940.001	899	3.309	7.64	11.55	20.01	12.747	13.823
6/15/2017 6:35	54000.001	900	3.31	7.64	11.55	20.01	12.744	13.815
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6/15/2017 6:40	54300.001	905	3.311	7.64	11.56	20.00	12.743	13.826
6/15/2017 6:41	54360.001	906	3.309	7.64	11.55	20.01	12.748	13.801
6/15/2017 6:42	54420.001	907	3.309	7.64	11.55	20.01	12.748	13.809
6/15/2017 6:43	54480.001	908	3.311	7.64	11.56	20.00	12.743	13.822
6/15/2017 6:44	54540.001	909	3.311	7.64	11.56	20.00	12.744	13.817

6/15/2017 6:45	54600.001	910	3.308	7.64	11.55	20.01	12.751	13.82
6/15/2017 6:46	54660.001	911	3.31	7.64	11.55	20.01	12.746	13.819
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6/15/2017 6:48	54780.001	913	3.309	7.64	11.55	20.01	12.747	13.809
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6/15/2017 6:50	54900.001	915	3.309	7.64	11.55	20.01	12.748	13.809
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6/15/2017 6:52	55020.001	917	3.309	7.64	11.55	20.01	12.747	13.803
6/15/2017 6:53	55080.001	918	3.312	7.65	11.56	20.00	12.742	13.801
6/15/2017 6:54	55140.001	919	3.31	7.64	11.55	20.01	12.746	13.823
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6/15/2017 6:56	55260.001	921	3.311	7.64	11.56	20.00	12.742	13.814
6/15/2017 6:57	55320.001	922	3.307	7.64	11.55	20.01	12.751	13.828
6/15/2017 6:58	55380.001	923	3.308	7.64	11.55	20.01	12.749	13.787
6/15/2017 6:59	55440.001	924	3.307	7.64	11.55	20.01	12.751	13.815
6/15/2017 7:00	55500.001	925	3.309	7.64	11.55	20.01	12.747	13.798
6/15/2017 7:01	55560.001	926	3.306	7.63	11.54	20.02	12.754	13.8
6/15/2017 7:02	55620.001	927	3.308	7.64	11.55	20.01	12.75	13.806
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6/15/2017 7:04	55740.001	929	3.308	7.64	11.55	20.01	12.75	13.798
6/15/2017 7:05	55800.001	930	3.312	7.65	11.56	20.00	12.742	13.818
6/15/2017 7:06	55860.001	931	3.309	7.64	11.55	20.01	12.748	13.817
6/15/2017 7:07	55920.001	932	3.309	7.64	11.55	20.01	12.749	13.817
6/15/2017 7:08	55980.001	933	3.308	7.64	11.55	20.01	12.749	13.817
6/15/2017 7:09	56040.001	934	3.307	7.64	11.55	20.01	12.752	13.814
6/15/2017 7:10	56100.001	935	3.306	7.63	11.54	20.02	12.754	13.824
6/15/2017 7:11	56160.001	936	3.307	7.64	11.55	20.01	12.752	13.817
6/15/2017 7:12	56220.001	937	3.307	7.64	11.55	20.01	12.752	13.825
6/15/2017 7:13	56280.001	938	3.317	7.66	11.57	19.99	12.728	13.821
6/15/2017 7:14	56340.001	939	3.319	7.66	11.57	19.99	12.725	13.796
6/15/2017 7:15	56400.001	940	3.315	7.65	11.57	19.99	12.734	13.806
6/15/2017 7:16	56460.001	941	3.314	7.65	11.56	20.00	12.736	13.812
6/15/2017 7:17	56520.001	942	3.315	7.65	11.57	19.99	12.733	13.831
6/15/2017 7:18	56580.001	943	3.313	7.65	11.56	20.00	12.739	13.826
6/15/2017 7:19	56640.001	944	3.315	7.65	11.57	19.99	12.734	13.809
6/15/2017 7:20	56700.001	945	3.311	7.64	11.56	20.00	12.742	13.824
6/15/2017 7:21	56760.001	946	3.311	7.64	11.56	20.00	12.743	13.812
6/15/2017 7:22	56820.001	947	3.31	7.64	11.55	20.01	12.745	13.828
6/15/2017 7:23	56880.001	948	3.309	7.64	11.55	20.01	12.747	13.818
6/15/2017 7:24	56940.001	949	3.306	7.63	11.54	20.02	12.754	13.81
6/15/2017 7:25	57000.001	950	3.308	7.64	11.55	20.01	12.75	13.818
6/15/2017 7:26	57060.001	951	3.307	7.64	11.55	20.01	12.752	13.813
6/15/2017 7:27	57120.001	952	3.306	7.63	11.54	20.02	12.753	13.807
6/15/2017 7:28	57180.001	953	3.308	7.64	11.55	20.01	12.75	13.832
6/15/2017 7:29	57240.001	954	3.31	7.64	11.55	20.01	12.746	13.811
6/15/2017 7:30	57300.001	955	3.308	7.64	11.55	20.01	12.751	13.801
6/15/2017 7:31	57360.001	956	3.31	7.64	11.55	20.01	12.746	13.798

6/15/2017 7:32	57420.001	957	3.307	7.64	11.55	20.01	12.752	13.822
6/15/2017 7:33	57480.001	958	3.307	7.64	11.55	20.01	12.752	13.821
6/15/2017 7:34	57540.001	959	3.306	7.63	11.54	20.02	12.754	13.838
6/15/2017 7:35	57600.001	960	3.31	7.64	11.55	20.01	12.745	13.835
6/15/2017 7:36	57660.001	961	3.31	7.64	11.55	20.01	12.746	13.818
6/15/2017 7:37	57720.001	962	3.31	7.64	11.55	20.01	12.746	13.83
6/15/2017 7:38	57780.001	963	3.309	7.64	11.55	20.01	12.747	13.828
6/15/2017 7:39	57840.001	964	3.308	7.64	11.55	20.01	12.749	13.833
6/15/2017 7:40	57900.001	965	3.309	7.64	11.55	20.01	12.748	13.815
6/15/2017 7:41	57960.001	966	3.31	7.64	11.55	20.01	12.744	13.811
6/15/2017 7:42	58020.001	967	3.31	7.64	11.55	20.01	12.746	13.809
6/15/2017 7:43	58080.001	968	3.308	7.64	11.55	20.01	12.749	13.824
6/15/2017 7:44	58140.001	969	3.311	7.64	11.56	20.00	12.743	13.812
6/15/2017 7:45	58200.001	970	3.309	7.64	11.55	20.01	12.747	13.815
6/15/2017 7:46	58260.001	971	3.307	7.64	11.55	20.01	12.753	13.806
6/15/2017 7:47	58320.001	972	3.308	7.64	11.55	20.01	12.75	13.81
6/15/2017 7:48	58380.001	973	3.309	7.64	11.55	20.01	12.748	13.812
6/15/2017 7:49	58440.001	974	3.308	7.64	11.55	20.01	12.75	13.795
6/15/2017 7:50	58500.001	975	3.309	7.64	11.55	20.01	12.748	13.811
6/15/2017 7:51	58560.001	976	3.307	7.64	11.55	20.01	12.751	13.8
6/15/2017 7:52	58620.001	977	3.307	7.64	11.55	20.01	12.752	13.795
6/15/2017 7:53	58680.001	978	3.308	7.64	11.55	20.01	12.751	13.816
6/15/2017 7:54	58740.001	979	3.307	7.64	11.55	20.01	12.751	13.809
6/15/2017 7:55	58800.001	980	3.308	7.64	11.55	20.01	12.75	13.828
6/15/2017 7:56	58860.001	981	3.308	7.64	11.55	20.01	12.75	13.801
6/15/2017 7:57	58920.001	982	3.307	7.64	11.55	20.01	12.752	13.813
6/15/2017 7:58	58980.001	983	3.304	7.63	11.54	20.02	12.76	13.809
6/15/2017 7:59	59040.001	984	3.306	7.63	11.54	20.02	12.754	13.817
6/15/2017 8:00	59100.001	985	3.303	7.63	11.54	20.02	12.761	13.817
6/15/2017 8:00	59118.099	986	3.304	7.63	11.54	20.02	12.759	13.824
6/15/2017 8:01	59178.099	987	1.243	2.87	6.78	24.78	17.518	13.819
6/15/2017 8:02	59238.099	988	3.318	7.66	11.57	19.99	12.726	13.633

PZ-17-2 Background - 6/14/2017



Report Date: 6/16/2017 11:37
Report User Name spauldingj
Report Computer LAPTOP04
Application: WinSitu.exe
Application Versio 5.6.25.0

Log File Properties

File Name PZ-17-2_Append_2017-06-15_08-15-25-239.wsl
Create Date 6/15/2017 8:15

Device Properties

Device Level TROLL 700
Site Orange County Landfill
Device Name
Serial Number 428981
Firmware Version 3.03
Hardware Version 5
Device Address 1
Device Comm Cfg 19200
Used Memory 0
Used Battery 11

Even

8

1

Log Configuration

Log Name PZ-17-2
Created By SpauldingJ
Computer Name LAPTOP04
Application WinSitu.exe
Application Version 5.6.25.0
Create Date 6/14/2017 3:47:07 PM Eastern Daylight Time
Log Setup Time Zone Eastern Daylight Time
Notes Size (bytes) 4096
Overwrite when full Disabled
Scheduled Start Time Manual Start
Scheduled Stop Time No Stop Time
Type Linear
Interval Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode
Specific Gravity
Level Reference Mode: Level Depth To Water 0.999
Level Reference Offset: Set first logged value to offset 20.48 (ft)

Other Log Settings

Depth of Probe: 0.0609372 (ft)
Head Pressure: 0.0263915 (PSI)
Temperature: 46.673 (C)

Log Notes:

Date and Time Note
6/14/2017 15:47 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/14/2017 15:47 Manual Start Command
6/15/2017 7:52 Log Download - Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/15/2017 8:14 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/15/2017 8:14 Manual Stop Command

Log Data: Record Count 988

Sensors 1

428981

Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time		Elapsed Time	Sensor: Pres(G) 35ft		Sensor: Pres(G) 35ft		Sensor: Pres(G) 35ft	
Date and Time		Seconds	SN#	Pressure (PSI)	Water Level (ft.)	Level Depth To Water (ft)	SN#	Temperature (C)
6/14/2017 15:47	0	0.026	428981	0		20.48	428981	46.68
6/14/2017 15:48	60.001	0.012		1		20.512		45.875
6/14/2017 15:49	120.001	2.889		2		13.87		35.707
6/14/2017 15:50	180.001	3.037		3		13.526		28.691
6/14/2017 15:51	240.001	3.021		4	11.75	20.48		24.49
6/14/2017 15:52	300.001	3.014		5	11.71	20.52		21.855
6/14/2017 15:53	360.001	3.011		6	11.70	20.53		20.032
6/14/2017 15:54	420.001	3.011		7	11.69	20.54		18.776
6/14/2017 15:55	480.001	3.009		8	11.69	20.54		17.758
6/14/2017 15:56	540.001	3.011		9	11.69	20.54		17.006
6/14/2017 15:57	600.001	3.012		10	11.69	20.54		16.426
6/14/2017 15:58	660.001	3.013		11	11.69	20.54		15.969
6/14/2017 15:59	720.001	3.014		12	11.70	20.53		15.61
6/14/2017 16:00	780.001	3.017		13	11.70	20.53		15.383
6/14/2017 16:01	840.001	3.02		14	11.71	20.52		15.161
6/14/2017 16:02	900.001	3.021		15	11.71	20.52		14.959
6/14/2017 16:03	960.001	3.023		16	11.72	20.51		14.839
6/14/2017 16:04	1020.001	3.028		17	11.73	20.50		14.736
6/14/2017 16:05	1080.001	3.029		18	11.73	20.50		14.62

6/14/2017 16:06	1140.001	19	3.03	7.00	11.73	20.50	13.544	14.56
6/14/2017 16:07	1200.001	20	3.032	7.00	11.74	20.49	13.54	14.473
6/14/2017 16:08	1260.001	21	3.034	7.01	11.74	20.49	13.535	14.421
6/14/2017 16:09	1320.001	22	3.037	7.01	11.75	20.48	13.526	14.386
6/14/2017 16:10	1380.001	23	3.037	7.01	11.75	20.48	13.527	14.339
6/14/2017 16:11	1440.001	24	3.038	7.01	11.75	20.48	13.525	14.32
6/14/2017 16:12	1500.001	25	3.041	7.02	11.76	20.47	13.519	14.284
6/14/2017 16:13	1560.001	26	3.045	7.03	11.77	20.46	13.509	14.265
6/14/2017 16:14	1620.001	27	3.044	7.03	11.77	20.46	13.512	14.222
6/14/2017 16:15	1680.001	28	3.045	7.03	11.77	20.46	13.509	14.251
6/14/2017 16:16	1740.001	29	3.047	7.04	11.77	20.46	13.505	14.213
6/14/2017 16:17	1800.001	30	3.048	7.04	11.78	20.45	13.503	14.2
6/14/2017 16:18	1860.001	31	3.051	7.04	11.78	20.45	13.496	14.181
6/14/2017 16:19	1920.001	32	3.054	7.05	11.79	20.44	13.489	14.166
6/14/2017 16:20	1980.001	33	3.053	7.05	11.79	20.44	13.491	14.161
6/14/2017 16:21	2040.001	34	3.053	7.05	11.79	20.44	13.491	14.143
6/14/2017 16:22	2100.001	35	3.056	7.06	11.79	20.44	13.484	14.139
6/14/2017 16:23	2160.001	36	3.055	7.05	11.79	20.44	13.485	14.137
6/14/2017 16:24	2220.001	37	3.056	7.06	11.79	20.44	13.483	14.108
6/14/2017 16:25	2280.001	38	3.059	7.06	11.80	20.43	13.477	14.134
6/14/2017 16:26	2340.001	39	3.06	7.07	11.80	20.43	13.474	14.115
6/14/2017 16:27	2400.001	40	3.062	7.07	11.81	20.42	13.47	14.11
6/14/2017 16:28	2460.001	41	3.063	7.07	11.81	20.42	13.466	14.098
6/14/2017 16:29	2520.001	42	3.063	7.07	11.81	20.42	13.468	14.104
6/14/2017 16:30	2580.001	43	3.064	7.07	11.81	20.42	13.466	14.081
6/14/2017 16:31	2640.001	44	3.061	7.07	11.81	20.42	13.471	14.126
6/14/2017 16:32	2700.001	45	3.066	7.08	11.82	20.41	13.461	14.11
6/14/2017 16:33	2760.001	46	3.065	7.08	11.81	20.42	13.464	14.104
6/14/2017 16:34	2820.001	47	3.07	7.09	11.83	20.40	13.45	14.082
6/14/2017 16:35	2880.001	48	3.068	7.08	11.82	20.41	13.456	14.076
6/14/2017 16:36	2940.001	49	3.07	7.09	11.83	20.40	13.452	14.098
6/14/2017 16:37	3000.001	50	3.071	7.09	11.83	20.40	13.449	14.082
6/14/2017 16:38	3060.001	51	3.071	7.09	11.83	20.40	13.448	14.078
6/14/2017 16:39	3120.001	52	3.071	7.09	11.83	20.40	13.449	14.079
6/14/2017 16:40	3180.001	53	3.071	7.09	11.83	20.40	13.448	14.086
6/14/2017 16:41	3240.001	54	3.072	7.09	11.83	20.40	13.447	14.091
6/14/2017 16:42	3300.001	55	3.073	7.10	11.83	20.40	13.444	14.09
6/14/2017 16:43	3360.001	56	3.074	7.10	11.84	20.39	13.442	14.084
6/14/2017 16:44	3420.001	57	3.075	7.10	11.84	20.39	13.439	14.06
6/14/2017 16:45	3480.001	58	3.074	7.10	11.84	20.39	13.442	14.058
6/14/2017 16:46	3540.001	59	3.076	7.10	11.84	20.39	13.438	14.079
6/14/2017 16:47	3600.001	60	3.076	7.10	11.84	20.39	13.438	14.065
6/14/2017 16:48	3660.001	61	3.077	7.10	11.84	20.39	13.436	14.087
6/14/2017 16:49	3720.001	62	3.078	7.11	11.84	20.39	13.433	14.076
6/14/2017 16:50	3780.001	63	3.08	7.11	11.85	20.38	13.429	14.091
6/14/2017 16:51	3840.001	64	3.078	7.11	11.84	20.39	13.432	14.086
6/14/2017 16:52	3900.001	65	3.082	7.12	11.85	20.38	13.423	14.062

6/14/2017 16:53	3960.001	66	3.08	7.11	11.85	20.38	13.428	14.086
6/14/2017 16:54	4020.001	67	3.082	7.12	11.85	20.38	13.423	14.066
6/14/2017 16:55	4080.001	68	3.078	7.11	11.84	20.39	13.432	14.075
6/14/2017 16:56	4140.001	69	3.084	7.12	11.86	20.37	13.418	14.068
6/14/2017 16:57	4200.001	70	3.082	7.12	11.85	20.38	13.424	14.086
6/14/2017 16:58	4260.001	71	3.082	7.12	11.85	20.38	13.424	14.068
6/14/2017 16:59	4320.001	72	3.084	7.12	11.86	20.37	13.419	14.067
6/14/2017 17:00	4380.001	73	3.086	7.13	11.86	20.37	13.414	14.074
6/14/2017 17:01	4440.001	74	3.083	7.12	11.86	20.37	13.42	14.066
6/14/2017 17:02	4500.001	75	3.083	7.12	11.86	20.37	13.421	14.06
6/14/2017 17:03	4560.001	76	3.086	7.13	11.86	20.37	13.415	14.051
6/14/2017 17:04	4620.001	77	3.087	7.13	11.87	20.36	13.411	14.072
6/14/2017 17:05	4680.001	78	3.085	7.12	11.86	20.37	13.415	14.048
6/14/2017 17:06	4740.001	79	3.088	7.13	11.87	20.36	13.408	14.05
6/14/2017 17:07	4800.001	80	3.089	7.13	11.87	20.36	13.408	14.051
6/14/2017 17:08	4860.001	81	3.088	7.13	11.87	20.36	13.41	14.051
6/14/2017 17:09	4920.001	82	3.089	7.13	11.87	20.36	13.407	14.065
6/14/2017 17:10	4980.001	83	3.089	7.13	11.87	20.36	13.407	14.042
6/14/2017 17:11	5040.001	84	3.09	7.13	11.87	20.36	13.404	14.079
6/14/2017 17:12	5100.001	85	3.09	7.13	11.87	20.36	13.404	14.052
6/14/2017 17:13	5160.001	86	3.089	7.13	11.87	20.36	13.408	14.067
6/14/2017 17:14	5220.001	87	3.091	7.14	11.87	20.36	13.401	14.05
6/14/2017 17:15	5280.001	88	3.093	7.14	11.88	20.35	13.399	14.073
6/14/2017 17:16	5340.001	89	3.091	7.14	11.87	20.36	13.402	14.049
6/14/2017 17:17	5400.001	90	3.094	7.14	11.88	20.35	13.396	14.051
6/14/2017 17:18	5460.001	91	3.094	7.14	11.88	20.35	13.395	14.068
6/14/2017 17:19	5520.001	92	3.092	7.14	11.88	20.35	13.399	14.035
6/14/2017 17:20	5580.001	93	3.091	7.14	11.87	20.36	13.403	14.062
6/14/2017 17:21	5640.001	94	3.093	7.14	11.88	20.35	13.398	14.068
6/14/2017 17:22	5700.001	95	3.095	7.15	11.88	20.35	13.394	14.025
6/14/2017 17:23	5760.001	96	3.093	7.14	11.88	20.35	13.398	14.079
6/14/2017 17:24	5820.001	97	3.095	7.15	11.88	20.35	13.394	14.047
6/14/2017 17:25	5880.001	98	3.096	7.15	11.89	20.34	13.391	14.053
6/14/2017 17:26	5940.001	99	3.096	7.15	11.89	20.34	13.39	14.064
6/14/2017 17:27	6000.001	100	3.096	7.15	11.89	20.34	13.392	14.065
6/14/2017 17:28	6060.001	101	3.096	7.15	11.89	20.34	13.39	14.048
6/14/2017 17:29	6120.001	102	3.095	7.15	11.88	20.35	13.394	14.049
6/14/2017 17:30	6180.001	103	3.096	7.15	11.89	20.34	13.392	14.049
6/14/2017 17:31	6240.001	104	3.094	7.14	11.88	20.35	13.395	14.029
6/14/2017 17:32	6300.001	105	3.096	7.15	11.89	20.34	13.391	14.061
6/14/2017 17:33	6360.001	106	3.097	7.15	11.89	20.34	13.389	14.051
6/14/2017 17:34	6420.001	107	3.097	7.15	11.89	20.34	13.389	14.022
6/14/2017 17:35	6480.001	108	3.098	7.15	11.89	20.34	13.387	14.054
6/14/2017 17:36	6540.001	109	3.099	7.16	11.89	20.34	13.384	14.051
6/14/2017 17:37	6600.001	110	3.099	7.16	11.89	20.34	13.385	14.051
6/14/2017 17:38	6660.001	111	3.101	7.16	11.90	20.33	13.379	14.071
6/14/2017 17:39	6720.001	112	3.099	7.16	11.89	20.34	13.384	14.058

6/14/2017 17:40	6780.001	113	3.099	7.16	11.89	20.34	13.385	14.057
6/14/2017 17:41	6840.001	114	3.101	7.16	11.90	20.33	13.38	14.071
6/14/2017 17:42	6900.001	115	3.099	7.16	11.89	20.34	13.384	14.065
6/14/2017 17:43	6960.001	116	3.101	7.16	11.90	20.33	13.379	14.061
6/14/2017 17:44	7020.001	117	3.099	7.16	11.89	20.34	13.384	14.05
6/14/2017 17:45	7080.001	118	3.101	7.16	11.90	20.33	13.379	14.054
6/14/2017 17:46	7140.001	119	3.1	7.16	11.90	20.33	13.381	14.054
6/14/2017 17:47	7200.001	120	3.1	7.16	11.90	20.33	13.381	14.06
6/14/2017 17:48	7260.001	121	3.1	7.16	11.90	20.33	13.381	14.046
6/14/2017 17:49	7320.001	122	3.104	7.17	11.90	20.33	13.373	14.052
6/14/2017 17:50	7380.001	123	3.103	7.16	11.90	20.33	13.376	14.07
6/14/2017 17:51	7440.001	124	3.101	7.16	11.90	20.33	13.38	14.073
6/14/2017 17:52	7500.001	125	3.102	7.16	11.90	20.33	13.378	14.07
6/14/2017 17:53	7560.001	126	3.103	7.16	11.90	20.33	13.375	14.049
6/14/2017 17:54	7620.001	127	3.103	7.16	11.90	20.33	13.374	14.038
6/14/2017 17:55	7680.001	128	3.105	7.17	11.91	20.32	13.37	14.042
6/14/2017 17:56	7740.001	129	3.103	7.16	11.90	20.33	13.375	14.055
6/14/2017 17:57	7800.001	130	3.103	7.16	11.90	20.33	13.375	14.036
6/14/2017 17:58	7860.001	131	3.105	7.17	11.91	20.32	13.37	14.046
6/14/2017 17:59	7920.001	132	3.106	7.17	11.91	20.32	13.368	14.046
6/14/2017 18:00	7980.001	133	3.102	7.16	11.90	20.33	13.376	14.06
6/14/2017 18:01	8040.001	134	3.105	7.17	11.91	20.32	13.371	14.063
6/14/2017 18:02	8100.001	135	3.105	7.17	11.91	20.32	13.37	14.066
6/14/2017 18:03	8160.001	136	3.105	7.17	11.91	20.32	13.371	14.03
6/14/2017 18:04	8220.001	137	3.106	7.17	11.91	20.32	13.368	14.053
6/14/2017 18:05	8280.001	138	3.108	7.18	11.91	20.32	13.363	14.039
6/14/2017 18:06	8340.001	139	3.106	7.17	11.91	20.32	13.368	14.052
6/14/2017 18:07	8400.001	140	3.105	7.17	11.91	20.32	13.371	14.041
6/14/2017 18:08	8460.001	141	3.108	7.18	11.91	20.32	13.364	14.062
6/14/2017 18:09	8520.001	142	3.105	7.17	11.91	20.32	13.37	14.05
6/14/2017 18:10	8580.001	143	3.104	7.17	11.90	20.33	13.372	14.054
6/14/2017 18:11	8640.001	144	3.109	7.18	11.92	20.31	13.361	14.056
6/14/2017 18:12	8700.001	145	3.109	7.18	11.92	20.31	13.361	14.041
6/14/2017 18:13	8760.001	146	3.109	7.18	11.92	20.31	13.362	14.051
6/14/2017 18:14	8820.001	147	3.11	7.18	11.92	20.31	13.358	14.067
6/14/2017 18:15	8880.001	148	3.109	7.18	11.92	20.31	13.361	14.063
6/14/2017 18:16	8940.001	149	3.11	7.18	11.92	20.31	13.359	14.041
6/14/2017 18:17	9000.001	150	3.109	7.18	11.92	20.31	13.36	14.065
6/14/2017 18:18	9060.001	151	3.111	7.18	11.92	20.31	13.356	14.055
6/14/2017 18:19	9120.001	152	3.108	7.18	11.91	20.32	13.364	14.034
6/14/2017 18:20	9180.001	153	3.112	7.19	11.92	20.31	13.354	14.054
6/14/2017 18:21	9240.001	154	3.109	7.18	11.92	20.31	13.36	14.054
6/14/2017 18:22	9300.001	155	3.109	7.18	11.92	20.31	13.361	14.054
6/14/2017 18:23	9360.001	156	3.11	7.18	11.92	20.31	13.358	14.053
6/14/2017 18:24	9420.001	157	3.11	7.18	11.92	20.31	13.36	14.026
6/14/2017 18:25	9480.001	158	3.11	7.18	11.92	20.31	13.358	14.034
6/14/2017 18:26	9540.001	159	3.111	7.18	11.92	20.31	13.356	14.047

6/14/2017 18:27	9600.001	160	3.111	7.18	11.92	20.31	13.356	14.07
6/14/2017 18:28	9660.001	161	3.111	7.18	11.92	20.31	13.356	13.999
6/14/2017 18:29	9720.001	162	3.109	7.18	11.92	20.31	13.36	14.046
6/14/2017 18:30	9780.001	163	3.112	7.19	11.92	20.31	13.354	14.043
6/14/2017 18:31	9840.001	164	3.114	7.19	11.93	20.30	13.349	14.049
6/14/2017 18:32	9900.001	165	3.115	7.19	11.93	20.30	13.347	14.046
6/14/2017 18:33	9960.001	166	3.113	7.19	11.93	20.30	13.351	14.016
6/14/2017 18:34	10020.001	167	3.111	7.18	11.92	20.31	13.355	14.044
6/14/2017 18:35	10080.001	168	3.111	7.18	11.92	20.31	13.356	14.025
6/14/2017 18:36	10140.001	169	3.113	7.19	11.93	20.30	13.352	14.036
6/14/2017 18:37	10200.001	170	3.112	7.19	11.92	20.31	13.354	14.041
6/14/2017 18:38	10260.001	171	3.115	7.19	11.93	20.30	13.348	14.051
6/14/2017 18:39	10320.001	172	3.116	7.19	11.93	20.30	13.346	14.019
6/14/2017 18:40	10380.001	173	3.114	7.19	11.93	20.30	13.35	14.023
6/14/2017 18:41	10440.001	174	3.114	7.19	11.93	20.30	13.349	14.039
6/14/2017 18:42	10500.001	175	3.114	7.19	11.93	20.30	13.348	14.074
6/14/2017 18:43	10560.001	176	3.117	7.20	11.93	20.30	13.344	14.051
6/14/2017 18:44	10620.001	177	3.114	7.19	11.93	20.30	13.349	14.049
6/14/2017 18:45	10680.001	178	3.115	7.19	11.93	20.30	13.346	14.049
6/14/2017 18:46	10740.001	179	3.116	7.19	11.93	20.30	13.345	14.051
6/14/2017 18:47	10800.001	180	3.113	7.19	11.93	20.30	13.351	14.025
6/14/2017 18:48	10860.001	181	3.117	7.20	11.93	20.30	13.343	14.023
6/14/2017 18:49	10920.001	182	3.117	7.20	11.93	20.30	13.343	14.042
6/14/2017 18:50	10980.001	183	3.115	7.19	11.93	20.30	13.347	14.044
6/14/2017 18:51	11040.001	184	3.116	7.19	11.93	20.30	13.345	14.05
6/14/2017 18:52	11100.001	185	3.119	7.20	11.94	20.29	13.338	14.02
6/14/2017 18:53	11160.001	186	3.117	7.20	11.93	20.30	13.342	14.043
6/14/2017 18:54	11220.001	187	3.117	7.20	11.93	20.30	13.343	14.063
6/14/2017 18:55	11280.001	188	3.119	7.20	11.94	20.29	13.338	14.036
6/14/2017 18:56	11340.001	189	3.118	7.20	11.94	20.29	13.34	14.029
6/14/2017 18:57	11400.001	190	3.117	7.20	11.93	20.30	13.342	14.046
6/14/2017 18:58	11460.001	191	3.119	7.20	11.94	20.29	13.338	14.029
6/14/2017 18:59	11520.001	192	3.118	7.20	11.94	20.29	13.34	14.042
6/14/2017 19:00	11580.001	193	3.118	7.20	11.94	20.29	13.341	14.032
6/14/2017 19:01	11640.001	194	3.117	7.20	11.93	20.30	13.343	14.05
6/14/2017 19:02	11700.001	195	3.118	7.20	11.94	20.29	13.339	14.05
6/14/2017 19:03	11760.001	196	3.118	7.20	11.94	20.29	13.34	14.054
6/14/2017 19:04	11820.001	197	3.121	7.21	11.94	20.29	13.333	14.035
6/14/2017 19:05	11880.001	198	3.115	7.19	11.93	20.30	13.348	14.037
6/14/2017 19:06	11940.001	199	3.118	7.20	11.94	20.29	13.34	14.031
6/14/2017 19:07	12000.001	200	3.119	7.20	11.94	20.29	13.338	14.037
6/14/2017 19:08	12060.001	201	3.118	7.20	11.94	20.29	13.341	14.051
6/14/2017 19:09	12120.001	202	3.119	7.20	11.94	20.29	13.338	14.031
6/14/2017 19:10	12180.001	203	3.12	7.20	11.94	20.29	13.335	14.049
6/14/2017 19:11	12240.001	204	3.119	7.20	11.94	20.29	13.337	14.01
6/14/2017 19:12	12300.001	205	3.121	7.21	11.94	20.29	13.332	14.04
6/14/2017 19:13	12360.001	206	3.121	7.21	11.94	20.29	13.334	14.033

6/14/2017 19:14	12420.001	207	3.121	7.21	11.94	20.29	13.334	14.046
6/14/2017 19:15	12480.001	208	3.122	7.21	11.95	20.28	13.33	14.042
6/14/2017 19:16	12540.001	209	3.121	7.21	11.94	20.29	13.332	14.041
6/14/2017 19:17	12600.001	210	3.12	7.20	11.94	20.29	13.335	14.027
6/14/2017 19:18	12660.001	211	3.121	7.21	11.94	20.29	13.334	14.045
6/14/2017 19:19	12720.001	212	3.122	7.21	11.95	20.28	13.33	14.037
6/14/2017 19:20	12780.001	213	3.121	7.21	11.94	20.29	13.333	14.027
6/14/2017 19:21	12840.001	214	3.121	7.21	11.94	20.29	13.334	14.017
6/14/2017 19:22	12900.001	215	3.122	7.21	11.95	20.28	13.331	14.049
6/14/2017 19:23	12960.001	216	3.121	7.21	11.94	20.29	13.333	14.03
6/14/2017 19:24	13020.001	217	3.121	7.21	11.94	20.29	13.333	14.035
6/14/2017 19:25	13080.001	218	3.124	7.21	11.95	20.28	13.327	14.035
6/14/2017 19:26	13140.001	219	3.121	7.21	11.94	20.29	13.332	14.053
6/14/2017 19:27	13200.001	220	3.125	7.22	11.95	20.28	13.324	14.044
6/14/2017 19:28	13260.001	221	3.125	7.22	11.95	20.28	13.324	14.052
6/14/2017 19:29	13320.001	222	3.125	7.22	11.95	20.28	13.324	14.013
6/14/2017 19:30	13380.001	223	3.122	7.21	11.95	20.28	13.331	14.022
6/14/2017 19:31	13440.001	224	3.125	7.22	11.95	20.28	13.324	14.054
6/14/2017 19:32	13500.001	225	3.125	7.22	11.95	20.28	13.324	14.054
6/14/2017 19:33	13560.001	226	3.126	7.22	11.96	20.27	13.323	14.023
6/14/2017 19:34	13620.001	227	3.126	7.22	11.96	20.27	13.321	14.051
6/14/2017 19:35	13680.001	228	3.125	7.22	11.95	20.28	13.323	14.023
6/14/2017 19:36	13740.001	229	3.124	7.21	11.95	20.28	13.326	14.028
6/14/2017 19:37	13800.001	230	3.128	7.22	11.96	20.27	13.318	14.047
6/14/2017 19:38	13860.001	231	3.123	7.21	11.95	20.28	13.329	14.033
6/14/2017 19:39	13920.001	232	3.126	7.22	11.96	20.27	13.323	14.016
6/14/2017 19:40	13980.001	233	3.124	7.21	11.95	20.28	13.326	14.032
6/14/2017 19:41	14040.001	234	3.125	7.22	11.95	20.28	13.323	14.031
6/14/2017 19:42	14100.001	235	3.124	7.21	11.95	20.28	13.327	14.016
6/14/2017 19:43	14160.001	236	3.127	7.22	11.96	20.27	13.319	14.021
6/14/2017 19:44	14220.001	237	3.126	7.22	11.96	20.27	13.323	14.039
6/14/2017 19:45	14280.001	238	3.126	7.22	11.96	20.27	13.323	14.025
6/14/2017 19:46	14340.001	239	3.127	7.22	11.96	20.27	13.32	14.032
6/14/2017 19:47	14400.001	240	3.127	7.22	11.96	20.27	13.32	13.993
6/14/2017 19:48	14460.001	241	3.127	7.22	11.96	20.27	13.319	14.032
6/14/2017 19:49	14520.001	242	3.128	7.22	11.96	20.27	13.316	14.032
6/14/2017 19:50	14580.001	243	3.13	7.23	11.96	20.27	13.313	14.028
6/14/2017 19:51	14640.001	244	3.13	7.23	11.96	20.27	13.313	14.026
6/14/2017 19:52	14700.001	245	3.129	7.22	11.96	20.27	13.315	14.024
6/14/2017 19:53	14760.001	246	3.126	7.22	11.96	20.27	13.322	14.028
6/14/2017 19:54	14820.001	247	3.129	7.22	11.96	20.27	13.314	14.032
6/14/2017 19:55	14880.001	248	3.127	7.22	11.96	20.27	13.32	14.041
6/14/2017 19:56	14940.001	249	3.129	7.22	11.96	20.27	13.316	14.05
6/14/2017 19:57	15000.001	250	3.129	7.22	11.96	20.27	13.315	14.018
6/14/2017 19:58	15060.001	251	3.13	7.23	11.96	20.27	13.312	14.035
6/14/2017 19:59	15120.001	252	3.127	7.22	11.96	20.27	13.319	14.009
6/14/2017 20:00	15180.001	253	3.129	7.22	11.96	20.27	13.315	14.029

6/14/2017 20:01	15240.001	254	3.129	7.22	11.96	20.27	13.315	14.035
6/14/2017 20:02	15300.001	255	3.128	7.22	11.96	20.27	13.318	14.037
6/14/2017 20:03	15360.001	256	3.129	7.22	11.96	20.27	13.315	14.026
6/14/2017 20:04	15420.001	257	3.13	7.23	11.96	20.27	13.314	14.028
6/14/2017 20:05	15480.001	258	3.13	7.23	11.96	20.27	13.313	14.024
6/14/2017 20:06	15540.001	259	3.13	7.23	11.96	20.27	13.314	14.014
6/14/2017 20:07	15600.001	260	3.13	7.23	11.96	20.27	13.312	14.002
6/14/2017 20:08	15660.001	261	3.13	7.23	11.96	20.27	13.313	14.043
6/14/2017 20:09	15720.001	262	3.13	7.23	11.96	20.27	13.312	14.026
6/14/2017 20:10	15780.001	263	3.132	7.23	11.97	20.26	13.309	14.034
6/14/2017 20:11	15840.001	264	3.13	7.23	11.96	20.27	13.313	14.018
6/14/2017 20:12	15900.001	265	3.131	7.23	11.97	20.26	13.31	14.005
6/14/2017 20:13	15960.001	266	3.13	7.23	11.96	20.27	13.312	14.006
6/14/2017 20:14	16020.001	267	3.131	7.23	11.97	20.26	13.311	14.049
6/14/2017 20:15	16080.001	268	3.132	7.23	11.97	20.26	13.309	14.025
6/14/2017 20:16	16140.001	269	3.131	7.23	11.97	20.26	13.31	14.018
6/14/2017 20:17	16200.001	270	3.133	7.23	11.97	20.26	13.307	14.041
6/14/2017 20:18	16260.001	271	3.132	7.23	11.97	20.26	13.308	14.013
6/14/2017 20:19	16320.001	272	3.132	7.23	11.97	20.26	13.307	14.027
6/14/2017 20:20	16380.001	273	3.132	7.23	11.97	20.26	13.309	14.044
6/14/2017 20:21	16440.001	274	3.134	7.24	11.97	20.26	13.303	14.037
6/14/2017 20:22	16500.001	275	3.135	7.24	11.98	20.25	13.301	14.043
6/14/2017 20:23	16560.001	276	3.132	7.23	11.97	20.26	13.308	14.012
6/14/2017 20:24	16620.001	277	3.133	7.23	11.97	20.26	13.306	14.041
6/14/2017 20:25	16680.001	278	3.134	7.24	11.97	20.26	13.303	14.013
6/14/2017 20:26	16740.001	279	3.133	7.23	11.97	20.26	13.305	14.035
6/14/2017 20:27	16800.001	280	3.135	7.24	11.98	20.25	13.301	14.052
6/14/2017 20:28	16860.001	281	3.134	7.24	11.97	20.26	13.303	14.044
6/14/2017 20:29	16920.001	282	3.134	7.24	11.97	20.26	13.303	14.039
6/14/2017 20:30	16980.001	283	3.136	7.24	11.98	20.25	13.299	14.058
6/14/2017 20:31	17040.001	284	3.134	7.24	11.97	20.26	13.304	14.041
6/14/2017 20:32	17100.001	285	3.134	7.24	11.97	20.26	13.303	14.03
6/14/2017 20:33	17160.001	286	3.131	7.23	11.97	20.26	13.31	14.05
6/14/2017 20:34	17220.001	287	3.134	7.24	11.97	20.26	13.303	14.035
6/14/2017 20:35	17280.001	288	3.134	7.24	11.97	20.26	13.302	14.028
6/14/2017 20:36	17340.001	289	3.134	7.24	11.97	20.26	13.304	14.022
6/14/2017 20:37	17400.001	290	3.135	7.24	11.98	20.25	13.301	13.998
6/14/2017 20:38	17460.001	291	3.136	7.24	11.98	20.25	13.3	14.029
6/14/2017 20:39	17520.001	292	3.134	7.24	11.97	20.26	13.302	14.037
6/14/2017 20:40	17580.001	293	3.135	7.24	11.98	20.25	13.301	14.043
6/14/2017 20:41	17640.001	294	3.135	7.24	11.98	20.25	13.302	14.02
6/14/2017 20:42	17700.001	295	3.134	7.24	11.97	20.26	13.303	14.026
6/14/2017 20:43	17760.001	296	3.135	7.24	11.98	20.25	13.302	14.046
6/14/2017 20:44	17820.001	297	3.136	7.24	11.98	20.25	13.3	14.023
6/14/2017 20:45	17880.001	298	3.138	7.25	11.98	20.25	13.295	14.029
6/14/2017 20:46	17940.001	299	3.135	7.24	11.98	20.25	13.3	14.015
6/14/2017 20:47	18000.001	300	3.137	7.24	11.98	20.25	13.296	14.019

6/14/2017 20:48	18060.001	301	3.136	7.24	11.98	20.25	13.299	14.027
6/14/2017 20:49	18120.001	302	3.136	7.24	11.98	20.25	13.3	14.014
6/14/2017 20:50	18180.001	303	3.136	7.24	11.98	20.25	13.3	14.02
6/14/2017 20:51	18240.001	304	3.135	7.24	11.98	20.25	13.301	14.032
6/14/2017 20:52	18300.001	305	3.138	7.25	11.98	20.25	13.294	14.023
6/14/2017 20:53	18360.001	306	3.138	7.25	11.98	20.25	13.295	13.999
6/14/2017 20:54	18420.001	307	3.138	7.25	11.98	20.25	13.294	14.014
6/14/2017 20:55	18480.001	308	3.138	7.25	11.98	20.25	13.294	14.027
6/14/2017 20:56	18540.001	309	3.137	7.24	11.98	20.25	13.296	14.019
6/14/2017 20:57	18600.001	310	3.138	7.25	11.98	20.25	13.294	14.032
6/14/2017 20:58	18660.001	311	3.137	7.24	11.98	20.25	13.295	14.035
6/14/2017 20:59	18720.001	312	3.137	7.24	11.98	20.25	13.296	14.018
6/14/2017 21:00	18780.001	313	3.137	7.24	11.98	20.25	13.297	14.046
6/14/2017 21:01	18840.001	314	3.139	7.25	11.99	20.24	13.292	14.013
6/14/2017 21:02	18900.001	315	3.137	7.24	11.98	20.25	13.295	14.01
6/14/2017 21:03	18960.001	316	3.136	7.24	11.98	20.25	13.298	14.021
6/14/2017 21:04	19020.001	317	3.137	7.24	11.98	20.25	13.296	14.037
6/14/2017 21:05	19080.001	318	3.14	7.25	11.99	20.24	13.29	14.002
6/14/2017 21:06	19140.001	319	3.139	7.25	11.99	20.24	13.292	14.023
6/14/2017 21:07	19200.001	320	3.141	7.25	11.99	20.24	13.287	14.008
6/14/2017 21:08	19260.001	321	3.139	7.25	11.99	20.24	13.292	14.019
6/14/2017 21:09	19320.001	322	3.139	7.25	11.99	20.24	13.293	14.024
6/14/2017 21:10	19380.001	323	3.139	7.25	11.99	20.24	13.293	14.013
6/14/2017 21:11	19440.001	324	3.137	7.24	11.98	20.25	13.297	14.029
6/14/2017 21:12	19500.001	325	3.138	7.25	11.98	20.25	13.293	14.013
6/14/2017 21:13	19560.001	326	3.14	7.25	11.99	20.24	13.29	14.021
6/14/2017 21:14	19620.001	327	3.138	7.25	11.98	20.25	13.294	14.022
6/14/2017 21:15	19680.001	328	3.139	7.25	11.99	20.24	13.292	14.002
6/14/2017 21:16	19740.001	329	3.14	7.25	11.99	20.24	13.289	13.997
6/14/2017 21:17	19800.001	330	3.141	7.25	11.99	20.24	13.287	14.026
6/14/2017 21:18	19860.001	331	3.138	7.25	11.98	20.25	13.293	14.026
6/14/2017 21:19	19920.001	332	3.139	7.25	11.99	20.24	13.291	14.029
6/14/2017 21:20	19980.001	333	3.141	7.25	11.99	20.24	13.287	14.009
6/14/2017 21:21	20040.001	334	3.141	7.25	11.99	20.24	13.288	14.019
6/14/2017 21:22	20100.001	335	3.14	7.25	11.99	20.24	13.288	14.034
6/14/2017 21:23	20160.001	336	3.139	7.25	11.99	20.24	13.291	14.027
6/14/2017 21:24	20220.001	337	3.14	7.25	11.99	20.24	13.289	14.004
6/14/2017 21:25	20280.001	338	3.139	7.25	11.99	20.24	13.291	13.994
6/14/2017 21:26	20340.001	339	3.14	7.25	11.99	20.24	13.289	14.023
6/14/2017 21:27	20400.001	340	3.138	7.25	11.98	20.25	13.295	14.045
6/14/2017 21:28	20460.001	341	3.139	7.25	11.99	20.24	13.291	13.997
6/14/2017 21:29	20520.001	342	3.139	7.25	11.99	20.24	13.292	14.043
6/14/2017 21:30	20580.001	343	3.142	7.25	11.99	20.24	13.285	14.02
6/14/2017 21:31	20640.001	344	3.142	7.25	11.99	20.24	13.285	14.025
6/14/2017 21:32	20700.001	345	3.141	7.25	11.99	20.24	13.287	14.017
6/14/2017 21:33	20760.001	346	3.143	7.26	11.99	20.24	13.283	14.03
6/14/2017 21:34	20820.001	347	3.14	7.25	11.99	20.24	13.289	14.036

6/14/2017 21:35	20880.001	348	3.139	7.25	11.99	20.24	13.291	13.999
6/14/2017 21:36	20940.001	349	3.141	7.25	11.99	20.24	13.286	14.031
6/14/2017 21:37	21000.001	350	3.139	7.25	11.99	20.24	13.291	14.024
6/14/2017 21:38	21060.001	351	3.14	7.25	11.99	20.24	13.288	14.005
6/14/2017 21:39	21120.001	352	3.141	7.25	11.99	20.24	13.287	14.013
6/14/2017 21:40	21180.001	353	3.14	7.25	11.99	20.24	13.289	14.028
6/14/2017 21:41	21240.001	354	3.144	7.26	12.00	20.23	13.28	14.04
6/14/2017 21:42	21300.001	355	3.142	7.25	11.99	20.24	13.284	13.996
6/14/2017 21:43	21360.001	356	3.14	7.25	11.99	20.24	13.291	14.024
6/14/2017 21:44	21420.001	357	3.142	7.25	11.99	20.24	13.284	14.003
6/14/2017 21:45	21480.001	358	3.14	7.25	11.99	20.24	13.291	14.019
6/14/2017 21:46	21540.001	359	3.144	7.26	12.00	20.23	13.28	14.013
6/14/2017 21:47	21600.001	360	3.143	7.26	11.99	20.24	13.283	14.034
6/14/2017 21:48	21660.001	361	3.143	7.26	11.99	20.24	13.283	13.997
6/14/2017 21:49	21720.001	362	3.142	7.25	11.99	20.24	13.285	14.044
6/14/2017 21:50	21780.001	363	3.141	7.25	11.99	20.24	13.286	14.035
6/14/2017 21:51	21840.001	364	3.141	7.25	11.99	20.24	13.287	13.994
6/14/2017 21:52	21900.001	365	3.142	7.25	11.99	20.24	13.286	14.017
6/14/2017 21:53	21960.001	366	3.143	7.26	11.99	20.24	13.282	14.007
6/14/2017 21:54	22020.001	367	3.142	7.25	11.99	20.24	13.285	14.01
6/14/2017 21:55	22080.001	368	3.141	7.25	11.99	20.24	13.288	14.03
6/14/2017 21:56	22140.001	369	3.144	7.26	12.00	20.23	13.28	14.031
6/14/2017 21:57	22200.001	370	3.141	7.25	11.99	20.24	13.287	14.024
6/14/2017 21:58	22260.001	371	3.141	7.25	11.99	20.24	13.286	14.016
6/14/2017 21:59	22320.001	372	3.142	7.25	11.99	20.24	13.285	14.002
6/14/2017 22:00	22380.001	373	3.141	7.25	11.99	20.24	13.286	14.02
6/14/2017 22:01	22440.001	374	3.144	7.26	12.00	20.23	13.28	14.008
6/14/2017 22:02	22500.001	375	3.143	7.26	11.99	20.24	13.283	14.024
6/14/2017 22:03	22560.001	376	3.142	7.25	11.99	20.24	13.284	14.012
6/14/2017 22:04	22620.001	377	3.144	7.26	12.00	20.23	13.28	14.02
6/14/2017 22:05	22680.001	378	3.143	7.26	11.99	20.24	13.283	14.005
6/14/2017 22:06	22740.001	379	3.144	7.26	12.00	20.23	13.279	14.021
6/14/2017 22:07	22800.001	380	3.143	7.26	11.99	20.24	13.281	14.015
6/14/2017 22:08	22860.001	381	3.144	7.26	12.00	20.23	13.28	14.01
6/14/2017 22:09	22920.001	382	3.142	7.25	11.99	20.24	13.285	14.027
6/14/2017 22:10	22980.001	383	3.143	7.26	11.99	20.24	13.283	13.994
6/14/2017 22:11	23040.001	384	3.143	7.26	11.99	20.24	13.282	14.024
6/14/2017 22:12	23100.001	385	3.144	7.26	12.00	20.23	13.28	14.034
6/14/2017 22:13	23160.001	386	3.144	7.26	12.00	20.23	13.28	14.002
6/14/2017 22:14	23220.001	387	3.146	7.26	12.00	20.23	13.275	14.011
6/14/2017 22:15	23280.001	388	3.145	7.26	12.00	20.23	13.279	14.013
6/14/2017 22:16	23340.001	389	3.143	7.26	11.99	20.24	13.282	14.017
6/14/2017 22:17	23400.001	390	3.144	7.26	12.00	20.23	13.281	14.013
6/14/2017 22:18	23460.001	391	3.144	7.26	12.00	20.23	13.279	14.035
6/14/2017 22:19	23520.001	392	3.144	7.26	12.00	20.23	13.28	14.031
6/14/2017 22:20	23580.001	393	3.144	7.26	12.00	20.23	13.281	14.002
6/14/2017 22:21	23640.001	394	3.145	7.26	12.00	20.23	13.279	14.031

6/14/2017 22:22	23700.001	395	3.142	7.25	11.99	20.24	13.284	14.043
6/14/2017 22:23	23760.001	396	3.145	7.26	12.00	20.23	13.279	14.016
6/14/2017 22:24	23820.001	397	3.144	7.26	12.00	20.23	13.281	14.012
6/14/2017 22:25	23880.001	398	3.146	7.26	12.00	20.23	13.275	13.993
6/14/2017 22:26	23940.001	399	3.145	7.26	12.00	20.23	13.279	14.024
6/14/2017 22:27	24000.001	400	3.144	7.26	12.00	20.23	13.28	13.991
6/14/2017 22:28	24060.001	401	3.147	7.27	12.00	20.23	13.273	14.018
6/14/2017 22:29	24120.001	402	3.145	7.26	12.00	20.23	13.278	14.018
6/14/2017 22:30	24180.001	403	3.146	7.26	12.00	20.23	13.275	14.008
6/14/2017 22:31	24240.001	404	3.142	7.25	11.99	20.24	13.284	14.025
6/14/2017 22:32	24300.001	405	3.144	7.26	12.00	20.23	13.279	14.016
6/14/2017 22:33	24360.001	406	3.146	7.26	12.00	20.23	13.275	13.995
6/14/2017 22:34	24420.001	407	3.144	7.26	12.00	20.23	13.279	14.016
6/14/2017 22:35	24480.001	408	3.144	7.26	12.00	20.23	13.28	14.014
6/14/2017 22:36	24540.001	409	3.145	7.26	12.00	20.23	13.278	14.016
6/14/2017 22:37	24600.001	410	3.145	7.26	12.00	20.23	13.277	14.04
6/14/2017 22:38	24660.001	411	3.142	7.25	11.99	20.24	13.284	14.007
6/14/2017 22:39	24720.001	412	3.144	7.26	12.00	20.23	13.281	14.013
6/14/2017 22:40	24780.001	413	3.145	7.26	12.00	20.23	13.277	14.005
6/14/2017 22:41	24840.001	414	3.147	7.27	12.00	20.23	13.273	14.028
6/14/2017 22:42	24900.001	415	3.145	7.26	12.00	20.23	13.279	14.015
6/14/2017 22:43	24960.001	416	3.147	7.27	12.00	20.23	13.273	14.026
6/14/2017 22:44	25020.001	417	3.146	7.26	12.00	20.23	13.275	13.99
6/14/2017 22:45	25080.001	418	3.145	7.26	12.00	20.23	13.278	13.999
6/14/2017 22:46	25140.001	419	3.147	7.27	12.00	20.23	13.273	14.034
6/14/2017 22:47	25200.001	420	3.147	7.27	12.00	20.23	13.272	13.997
6/14/2017 22:48	25260.001	421	3.148	7.27	12.01	20.22	13.275	14.013
6/14/2017 22:49	25320.001	422	3.146	7.26	12.00	20.23	13.275	14.015
6/14/2017 22:50	25380.001	423	3.145	7.26	12.00	20.23	13.279	14.015
6/14/2017 22:51	25440.001	424	3.147	7.27	12.00	20.23	13.274	14.01
6/14/2017 22:52	25500.001	425	3.147	7.27	12.00	20.23	13.274	14.023
6/14/2017 22:53	25560.001	426	3.146	7.26	12.00	20.23	13.275	14.005
6/14/2017 22:54	25620.001	427	3.143	7.26	11.99	20.24	13.283	14.032
6/14/2017 22:55	25680.001	428	3.15	7.27	12.01	20.22	13.266	14.014
6/14/2017 22:56	25740.001	429	3.148	7.27	12.01	20.22	13.272	14.002
6/14/2017 22:57	25800.001	430	3.149	7.27	12.01	20.22	13.269	14.015
6/14/2017 22:58	25860.001	431	3.149	7.27	12.01	20.22	13.27	14.024
6/14/2017 22:59	25920.001	432	3.148	7.27	12.01	20.22	13.271	13.994
6/14/2017 23:00	25980.001	433	3.147	7.27	12.00	20.23	13.272	14.002
6/14/2017 23:01	26040.001	434	3.147	7.27	12.00	20.23	13.274	13.995
6/14/2017 23:02	26100.001	435	3.148	7.27	12.01	20.22	13.271	14.031
6/14/2017 23:03	26160.001	436	3.148	7.27	12.01	20.22	13.27	14.018
6/14/2017 23:04	26220.001	437	3.149	7.27	12.01	20.22	13.268	14.012
6/14/2017 23:05	26280.001	438	3.147	7.27	12.00	20.23	13.273	14.024
6/14/2017 23:06	26340.001	439	3.146	7.26	12.00	20.23	13.275	14.019
6/14/2017 23:07	26400.001	440	3.15	7.27	12.01	20.22	13.266	14.024
6/14/2017 23:08	26460.001	441	3.148	7.27	12.01	20.22	13.271	13.999

6/14/2017 23:09	26520.001	442	3.146	7.26	12.00	20.23	13.277	13.972
6/14/2017 23:10	26580.001	443	3.149	7.27	12.01	20.22	13.269	14.013
6/14/2017 23:11	26640.001	444	3.15	7.27	12.01	20.22	13.267	14.019
6/14/2017 23:12	26700.001	445	3.148	7.27	12.01	20.22	13.272	14.019
6/14/2017 23:13	26760.001	446	3.148	7.27	12.01	20.22	13.27	14.026
6/14/2017 23:14	26820.001	447	3.149	7.27	12.01	20.22	13.27	14.007
6/14/2017 23:15	26880.001	448	3.149	7.27	12.01	20.22	13.27	14.002
6/14/2017 23:16	26940.001	449	3.15	7.27	12.01	20.22	13.267	13.991
6/14/2017 23:17	27000.001	450	3.15	7.27	12.01	20.22	13.266	14.002
6/14/2017 23:18	27060.001	451	3.149	7.27	12.01	20.22	13.269	14.005
6/14/2017 23:19	27120.001	452	3.15	7.27	12.01	20.22	13.267	14.004
6/14/2017 23:20	27180.001	453	3.149	7.27	12.01	20.22	13.268	13.991
6/14/2017 23:21	27240.001	454	3.149	7.27	12.01	20.22	13.269	14.002
6/14/2017 23:22	27300.001	455	3.149	7.27	12.01	20.22	13.268	14.019
6/14/2017 23:23	27360.001	456	3.151	7.28	12.01	20.22	13.263	13.993
6/14/2017 23:24	27420.001	457	3.15	7.27	12.01	20.22	13.267	14.018
6/14/2017 23:25	27480.001	458	3.15	7.27	12.01	20.22	13.266	14
6/14/2017 23:26	27540.001	459	3.154	7.28	12.02	20.21	13.258	14.024
6/14/2017 23:27	27600.001	460	3.149	7.27	12.01	20.22	13.268	14.023
6/14/2017 23:28	27660.001	461	3.152	7.28	12.02	20.21	13.262	14.014
6/14/2017 23:29	27720.001	462	3.148	7.27	12.01	20.22	13.271	14.01
6/14/2017 23:30	27780.001	463	3.153	7.28	12.02	20.21	13.26	14.002
6/14/2017 23:31	27840.001	464	3.151	7.28	12.01	20.22	13.264	14.008
6/14/2017 23:32	27900.001	465	3.151	7.28	12.01	20.22	13.263	13.998
6/14/2017 23:33	27960.001	466	3.153	7.28	12.02	20.21	13.259	14.003
6/14/2017 23:34	28020.001	467	3.151	7.28	12.01	20.22	13.263	14.021
6/14/2017 23:35	28080.001	468	3.151	7.28	12.01	20.22	13.263	14.008
6/14/2017 23:36	28140.001	469	3.153	7.28	12.02	20.21	13.26	13.992
6/14/2017 23:37	28200.001	470	3.153	7.28	12.02	20.21	13.259	14.006
6/14/2017 23:38	28260.001	471	3.153	7.28	12.02	20.21	13.259	14.014
6/14/2017 23:39	28320.001	472	3.154	7.28	12.02	20.21	13.258	14.019
6/14/2017 23:40	28380.001	473	3.152	7.28	12.02	20.21	13.262	14.024
6/14/2017 23:41	28440.001	474	3.152	7.28	12.02	20.21	13.261	13.993
6/14/2017 23:42	28500.001	475	3.152	7.28	12.02	20.21	13.262	13.997
6/14/2017 23:43	28560.001	476	3.153	7.28	12.02	20.21	13.259	14.009
6/14/2017 23:44	28620.001	477	3.153	7.28	12.02	20.21	13.259	13.993
6/14/2017 23:45	28680.001	478	3.153	7.28	12.02	20.21	13.26	13.991
6/14/2017 23:46	28740.001	479	3.152	7.28	12.02	20.21	13.262	13.999
6/14/2017 23:47	28800.001	480	3.153	7.28	12.02	20.21	13.259	14.002
6/14/2017 23:48	28860.001	481	3.154	7.28	12.02	20.21	13.257	14.002
6/14/2017 23:49	28920.001	482	3.157	7.29	12.03	20.20	13.25	13.983
6/14/2017 23:50	28980.001	483	3.154	7.28	12.02	20.21	13.256	13.999
6/14/2017 23:51	29040.001	484	3.154	7.28	12.02	20.21	13.257	13.988
6/14/2017 23:52	29100.001	485	3.154	7.28	12.02	20.21	13.258	13.988
6/14/2017 23:53	29160.001	486	3.154	7.28	12.02	20.21	13.256	14.007
6/14/2017 23:54	29220.001	487	3.153	7.28	12.02	20.21	13.259	13.985
6/14/2017 23:55	29280.001	488	3.154	7.28	12.02	20.21	13.256	14.022

6/14/2017 23:56	29340.001	489	3.154	7.28	12.02	20.21	13.258	14.021
6/14/2017 23:57	29400.001	490	3.155	7.28	12.02	20.21	13.254	13.997
6/14/2017 23:58	29460.001	491	3.155	7.28	12.02	20.21	13.256	14.025
6/14/2017 23:59	29520.001	492	3.153	7.28	12.02	20.21	13.258	13.999
6/15/2017 0:00	29580.001	493	3.153	7.28	12.02	20.21	13.26	13.986
6/15/2017 0:01	29640.001	494	3.153	7.28	12.02	20.21	13.26	14.007
6/15/2017 0:02	29700.001	495	3.154	7.28	12.02	20.21	13.258	13.991
6/15/2017 0:03	29760.001	496	3.156	7.29	12.02	20.21	13.258	14.005
6/15/2017 0:04	29820.001	497	3.154	7.28	12.02	20.21	13.256	14.003
6/15/2017 0:05	29880.001	498	3.154	7.28	12.02	20.21	13.258	13.987
6/15/2017 0:06	29940.001	499	3.154	7.28	12.02	20.21	13.258	13.982
6/15/2017 0:07	30000.001	500	3.155	7.28	12.02	20.21	13.255	13.999
6/15/2017 0:08	30060.001	501	3.155	7.28	12.02	20.21	13.255	14.027
6/15/2017 0:09	30120.001	502	3.157	7.29	12.03	20.20	13.251	13.999
6/15/2017 0:10	30180.001	503	3.154	7.28	12.02	20.21	13.257	14
6/15/2017 0:11	30240.001	504	3.157	7.29	12.03	20.20	13.25	14.018
6/15/2017 0:12	30300.001	505	3.156	7.29	12.03	20.21	13.252	14
6/15/2017 0:13	30360.001	506	3.154	7.28	12.02	20.21	13.256	14.008
6/15/2017 0:14	30420.001	507	3.155	7.28	12.02	20.21	13.254	13.999
6/15/2017 0:15	30480.001	508	3.153	7.28	12.02	20.21	13.261	13.986
6/15/2017 0:16	30540.001	509	3.154	7.28	12.02	20.21	13.256	13.998
6/15/2017 0:17	30600.001	510	3.155	7.28	12.02	20.21	13.255	14.019
6/15/2017 0:18	30660.001	511	3.154	7.28	12.02	20.21	13.252	14.022
6/15/2017 0:19	30720.001	512	3.154	7.28	12.02	20.21	13.257	14.005
6/15/2017 0:20	30780.001	513	3.156	7.29	12.03	20.20	13.25	14.012
6/15/2017 0:21	30840.001	514	3.157	7.29	12.03	20.20	13.25	13.999
6/15/2017 0:22	30900.001	515	3.157	7.29	12.03	20.20	13.25	13.973
6/15/2017 0:23	30960.001	516	3.157	7.29	12.03	20.20	13.249	13.992
6/15/2017 0:24	31020.001	517	3.157	7.29	12.03	20.20	13.249	13.988
6/15/2017 0:25	31080.001	518	3.157	7.29	12.03	20.20	13.248	13.999
6/15/2017 0:26	31140.001	519	3.158	7.29	12.03	20.20	13.244	14.016
6/15/2017 0:27	31200.001	520	3.16	7.30	12.03	20.20	13.247	14.023
6/15/2017 0:28	31260.001	521	3.158	7.29	12.03	20.20	13.252	13.994
6/15/2017 0:29	31320.001	522	3.156	7.29	12.02	20.21	13.247	13.987
6/15/2017 0:30	31380.001	523	3.159	7.29	12.03	20.20	13.245	13.975
6/15/2017 0:31	31440.001	524	3.159	7.29	12.03	20.20	13.249	13.989
6/15/2017 0:32	31500.001	525	3.157	7.29	12.03	20.20	13.244	14.01
6/15/2017 0:33	31560.001	526	3.16	7.30	12.03	20.20	13.245	14.007
6/15/2017 0:34	31620.001	527	3.159	7.29	12.03	20.20	13.25	13.998
6/15/2017 0:35	31680.001	528	3.157	7.29	12.03	20.20	13.245	13.972
6/15/2017 0:36	31740.001	529	3.159	7.29	12.03	20.20	13.246	14.002
6/15/2017 0:37	31800.001	530	3.159	7.29	12.03	20.20	13.249	14.008
6/15/2017 0:38	31860.001	531	3.157	7.29	12.03	20.20	13.246	14.013
6/15/2017 0:39	31920.001	532	3.159	7.29	12.03	20.20	13.252	14.007
6/15/2017 0:40	31980.001	533	3.156	7.29	12.02	20.21	13.242	13.995
6/15/2017 0:41	32040.001	534	3.16	7.30	12.03	20.20	13.242	14.001
6/15/2017 0:42	32100.001	535	3.159	7.29	12.03	20.20	13.246	

6/15/2017 0:43	32160.001	536	3.156	7.29	12.02	20.21	13.253	14.01
6/15/2017 0:44	32220.001	537	3.157	7.29	12.03	20.20	13.251	14.003
6/15/2017 0:45	32280.001	538	3.159	7.29	12.03	20.20	13.247	14.013
6/15/2017 0:46	32340.001	539	3.159	7.29	12.03	20.20	13.246	13.975
6/15/2017 0:47	32400.001	540	3.16	7.30	12.03	20.20	13.244	13.995
6/15/2017 0:48	32460.001	541	3.162	7.30	12.04	20.19	13.239	13.982
6/15/2017 0:49	32520.001	542	3.158	7.29	12.03	20.20	13.248	13.998
6/15/2017 0:50	32580.001	543	3.161	7.30	12.04	20.19	13.241	14.013
6/15/2017 0:51	32640.001	544	3.158	7.29	12.03	20.20	13.249	13.986
6/15/2017 0:52	32700.001	545	3.157	7.29	12.03	20.20	13.249	14.01
6/15/2017 0:53	32760.001	546	3.156	7.29	12.02	20.21	13.251	14.019
6/15/2017 0:54	32820.001	547	3.154	7.28	12.02	20.21	13.257	13.979
6/15/2017 0:55	32880.001	548	3.159	7.29	12.03	20.20	13.246	13.986
6/15/2017 0:56	32940.001	549	3.16	7.30	12.03	20.20	13.242	13.991
6/15/2017 0:57	33000.001	550	3.158	7.29	12.03	20.20	13.248	13.994
6/15/2017 0:58	33060.001	551	3.159	7.29	12.03	20.20	13.245	13.984
6/15/2017 0:59	33120.001	552	3.16	7.30	12.03	20.20	13.243	13.977
6/15/2017 1:00	33180.001	553	3.159	7.29	12.03	20.20	13.245	13.997
6/15/2017 1:01	33240.001	554	3.162	7.30	12.04	20.19	13.239	14.01
6/15/2017 1:02	33300.001	555	3.158	7.29	12.03	20.20	13.249	13.979
6/15/2017 1:03	33360.001	556	3.159	7.29	12.03	20.20	13.246	13.992
6/15/2017 1:04	33420.001	557	3.16	7.30	12.03	20.20	13.244	13.991
6/15/2017 1:05	33480.001	558	3.161	7.30	12.04	20.19	13.241	13.99
6/15/2017 1:06	33540.001	559	3.16	7.30	12.03	20.20	13.242	13.975
6/15/2017 1:07	33600.001	560	3.161	7.30	12.04	20.19	13.242	13.993
6/15/2017 1:08	33660.001	561	3.161	7.30	12.04	20.19	13.242	13.997
6/15/2017 1:09	33720.001	562	3.158	7.29	12.03	20.20	13.247	14.004
6/15/2017 1:10	33780.001	563	3.158	7.29	12.03	20.20	13.248	13.974
6/15/2017 1:11	33840.001	564	3.162	7.30	12.04	20.19	13.238	13.958
6/15/2017 1:12	33900.001	565	3.159	7.29	12.03	20.20	13.245	13.984
6/15/2017 1:13	33960.001	566	3.161	7.30	12.04	20.19	13.241	14.005
6/15/2017 1:14	34020.001	567	3.159	7.29	12.03	20.20	13.246	13.987
6/15/2017 1:15	34080.001	568	3.161	7.30	12.04	20.19	13.24	14.003
6/15/2017 1:16	34140.001	569	3.16	7.30	12.03	20.20	13.243	13.997
6/15/2017 1:17	34200.001	570	3.16	7.30	12.03	20.20	13.244	13.97
6/15/2017 1:18	34260.001	571	3.161	7.30	12.04	20.19	13.242	14.01
6/15/2017 1:19	34320.001	572	3.162	7.30	12.04	20.19	13.238	13.976
6/15/2017 1:20	34380.001	573	3.16	7.30	12.03	20.20	13.243	13.984
6/15/2017 1:21	34440.001	574	3.16	7.30	12.03	20.20	13.244	14.011
6/15/2017 1:22	34500.001	575	3.161	7.30	12.04	20.19	13.24	13.999
6/15/2017 1:23	34560.001	576	3.16	7.30	12.03	20.20	13.242	13.98
6/15/2017 1:24	34620.001	577	3.157	7.29	12.03	20.20	13.249	13.988
6/15/2017 1:25	34680.001	578	3.161	7.30	12.04	20.19	13.241	13.964
6/15/2017 1:26	34740.001	579	3.162	7.30	12.04	20.19	13.239	13.994
6/15/2017 1:27	34800.001	580	3.162	7.30	12.04	20.19	13.239	13.998
6/15/2017 1:28	34860.001	581	3.161	7.30	12.04	20.19	13.24	13.981
6/15/2017 1:29	34920.001	582	3.165	7.31	12.05	20.18	13.232	14.005

6/15/2017 1:30	34980.001	583	3.16	7.30	12.03	20.20	13.244	13.986
6/15/2017 1:31	35040.001	584	3.16	7.30	12.03	20.20	13.243	13.988
6/15/2017 1:32	35100.001	585	3.159	7.29	12.03	20.20	13.246	13.992
6/15/2017 1:33	35160.001	586	3.16	7.30	12.03	20.20	13.242	13.975
6/15/2017 1:34	35220.001	587	3.161	7.30	12.04	20.19	13.24	14.008
6/15/2017 1:35	35280.001	588	3.161	7.30	12.04	20.19	13.241	13.971
6/15/2017 1:36	35340.001	589	3.16	7.30	12.03	20.20	13.244	13.965
6/15/2017 1:37	35400.001	590	3.163	7.30	12.04	20.19	13.236	13.992
6/15/2017 1:38	35460.001	591	3.16	7.30	12.03	20.20	13.242	13.991
6/15/2017 1:39	35520.001	592	3.162	7.30	12.04	20.19	13.238	14
6/15/2017 1:40	35580.001	593	3.162	7.30	12.04	20.19	13.238	13.979
6/15/2017 1:41	35640.001	594	3.161	7.30	12.04	20.19	13.241	13.983
6/15/2017 1:42	35700.001	595	3.162	7.30	12.04	20.19	13.239	13.991
6/15/2017 1:43	35760.001	596	3.163	7.30	12.04	20.19	13.236	13.956
6/15/2017 1:44	35820.001	597	3.162	7.30	12.04	20.19	13.238	13.997
6/15/2017 1:45	35880.001	598	3.161	7.30	12.04	20.19	13.241	13.985
6/15/2017 1:46	35940.001	599	3.162	7.30	12.04	20.19	13.24	13.989
6/15/2017 1:47	36000.001	600	3.167	7.31	12.05	20.18	13.228	14.01
6/15/2017 1:48	36060.001	601	3.161	7.30	12.04	20.19	13.242	13.991
6/15/2017 1:49	36120.001	602	3.165	7.31	12.05	20.18	13.231	13.993
6/15/2017 1:50	36180.001	603	3.161	7.30	12.04	20.19	13.24	13.991
6/15/2017 1:51	36240.001	604	3.16	7.30	12.03	20.20	13.244	14.007
6/15/2017 1:52	36300.001	605	3.162	7.30	12.04	20.19	13.239	14.008
6/15/2017 1:53	36360.001	606	3.162	7.30	12.04	20.19	13.238	13.991
6/15/2017 1:54	36420.001	607	3.163	7.30	12.04	20.19	13.236	13.979
6/15/2017 1:55	36480.001	608	3.164	7.31	12.04	20.19	13.235	13.983
6/15/2017 1:56	36540.001	609	3.163	7.30	12.04	20.19	13.236	13.989
6/15/2017 1:57	36600.001	610	3.162	7.30	12.04	20.19	13.239	13.989
6/15/2017 1:58	36660.001	611	3.167	7.31	12.05	20.18	13.228	14.005
6/15/2017 1:59	36720.001	612	3.162	7.30	12.04	20.19	13.238	13.989
6/15/2017 2:00	36780.001	613	3.164	7.31	12.04	20.19	13.234	13.954
6/15/2017 2:01	36840.001	614	3.164	7.31	12.04	20.19	13.234	14.016
6/15/2017 2:02	36900.001	615	3.166	7.31	12.05	20.18	13.229	13.986
6/15/2017 2:03	36960.001	616	3.164	7.31	12.04	20.19	13.234	13.993
6/15/2017 2:04	37020.001	617	3.163	7.30	12.04	20.19	13.235	13.991
6/15/2017 2:05	37080.001	618	3.163	7.30	12.04	20.19	13.236	13.973
6/15/2017 2:06	37140.001	619	3.164	7.31	12.04	20.19	13.235	14.002
6/15/2017 2:07	37200.001	620	3.162	7.30	12.04	20.19	13.238	14.001
6/15/2017 2:08	37260.001	621	3.164	7.31	12.04	20.19	13.233	13.991
6/15/2017 2:09	37320.001	622	3.163	7.30	12.04	20.19	13.237	13.993
6/15/2017 2:10	37380.001	623	3.164	7.31	12.04	20.19	13.235	13.97
6/15/2017 2:11	37440.001	624	3.159	7.29	12.03	20.20	13.245	13.994
6/15/2017 2:12	37500.001	625	3.164	7.31	12.04	20.19	13.234	13.994
6/15/2017 2:13	37560.001	626	3.166	7.31	12.05	20.18	13.228	13.986
6/15/2017 2:14	37620.001	627	3.165	7.31	12.05	20.18	13.232	13.977
6/15/2017 2:15	37680.001	628	3.164	7.31	12.04	20.19	13.234	13.994
6/15/2017 2:16	37740.001	629	3.165	7.31	12.05	20.18	13.232	13.967

6/15/2017 2:17	37800.001	630	3.163	7.30	12.04	20.19	13.235	13.989
6/15/2017 2:18	37860.001	631	3.162	7.30	12.04	20.19	13.239	13.999
6/15/2017 2:19	37920.001	632	3.163	7.30	12.04	20.19	13.235	14.016
6/15/2017 2:20	37980.001	633	3.164	7.31	12.04	20.19	13.233	13.984
6/15/2017 2:21	38040.001	634	3.163	7.30	12.04	20.19	13.235	13.995
6/15/2017 2:22	38100.001	635	3.163	7.30	12.04	20.19	13.236	13.972
6/15/2017 2:23	38160.001	636	3.164	7.31	12.04	20.19	13.234	13.994
6/15/2017 2:24	38220.001	637	3.163	7.30	12.04	20.19	13.237	14
6/15/2017 2:25	38280.001	638	3.164	7.31	12.04	20.19	13.233	13.984
6/15/2017 2:26	38340.001	639	3.162	7.30	12.04	20.19	13.239	13.986
6/15/2017 2:27	38400.001	640	3.162	7.30	12.04	20.19	13.238	13.983
6/15/2017 2:28	38460.001	641	3.162	7.30	12.04	20.19	13.239	14
6/15/2017 2:29	38520.001	642	3.163	7.30	12.04	20.19	13.237	13.966
6/15/2017 2:30	38580.001	643	3.165	7.31	12.05	20.18	13.232	13.976
6/15/2017 2:31	38640.001	644	3.164	7.31	12.04	20.19	13.235	13.985
6/15/2017 2:32	38700.001	645	3.166	7.31	12.05	20.18	13.229	13.99
6/15/2017 2:33	38760.001	646	3.166	7.31	12.05	20.18	13.231	13.964
6/15/2017 2:34	38820.001	647	3.164	7.31	12.04	20.19	13.234	13.979
6/15/2017 2:35	38880.001	648	3.164	7.31	12.04	20.19	13.234	13.983
6/15/2017 2:36	38940.001	649	3.163	7.30	12.04	20.19	13.236	13.993
6/15/2017 2:37	39000.001	650	3.165	7.31	12.05	20.18	13.232	13.985
6/15/2017 2:38	39060.001	651	3.165	7.31	12.05	20.18	13.233	13.988
6/15/2017 2:39	39120.001	652	3.163	7.30	12.04	20.19	13.236	13.983
6/15/2017 2:40	39180.001	653	3.162	7.30	12.04	20.19	13.238	13.964
6/15/2017 2:41	39240.001	654	3.165	7.31	12.05	20.18	13.233	13.985
6/15/2017 2:42	39300.001	655	3.164	7.31	12.04	20.19	13.234	13.994
6/15/2017 2:43	39360.001	656	3.164	7.31	12.04	20.19	13.234	14.016
6/15/2017 2:44	39420.001	657	3.166	7.31	12.05	20.18	13.229	14.002
6/15/2017 2:45	39480.001	658	3.166	7.31	12.05	20.18	13.229	13.989
6/15/2017 2:46	39540.001	659	3.165	7.31	12.05	20.18	13.232	13.988
6/15/2017 2:47	39600.001	660	3.166	7.31	12.05	20.18	13.229	13.988
6/15/2017 2:48	39660.001	661	3.164	7.31	12.04	20.19	13.234	14
6/15/2017 2:49	39720.001	662	3.163	7.30	12.04	20.19	13.236	13.972
6/15/2017 2:50	39780.001	663	3.166	7.31	12.05	20.18	13.23	13.98
6/15/2017 2:51	39840.001	664	3.165	7.31	12.05	20.18	13.233	13.986
6/15/2017 2:52	39900.001	665	3.164	7.31	12.04	20.19	13.235	13.994
6/15/2017 2:53	39960.001	666	3.164	7.31	12.04	20.19	13.233	14.008
6/15/2017 2:54	40020.001	667	3.165	7.31	12.05	20.18	13.231	13.983
6/15/2017 2:55	40080.001	668	3.167	7.31	12.05	20.18	13.227	13.958
6/15/2017 2:56	40140.001	669	3.167	7.31	12.05	20.18	13.226	14.003
6/15/2017 2:57	40200.001	670	3.165	7.31	12.05	20.18	13.233	14.023
6/15/2017 2:58	40260.001	671	3.164	7.31	12.04	20.19	13.234	13.988
6/15/2017 2:59	40320.001	672	3.165	7.31	12.05	20.18	13.231	13.966
6/15/2017 3:00	40380.001	673	3.165	7.31	12.05	20.18	13.231	13.991
6/15/2017 3:01	40440.001	674	3.164	7.31	12.04	20.19	13.235	13.976
6/15/2017 3:02	40500.001	675	3.167	7.31	12.05	20.18	13.228	14.003
6/15/2017 3:03	40560.001	676	3.166	7.31	12.05	20.18	13.23	13.992

6/15/2017 3:04	40620.001	677	3.165	7.31	12.05	20.18	13.231	13.996
6/15/2017 3:05	40680.001	678	3.166	7.31	12.05	20.18	13.228	13.991
6/15/2017 3:06	40740.001	679	3.165	7.31	12.05	20.18	13.232	13.961
6/15/2017 3:07	40800.001	680	3.164	7.31	12.04	20.19	13.233	13.988
6/15/2017 3:08	40860.001	681	3.163	7.30	12.04	20.19	13.237	13.964
6/15/2017 3:09	40920.001	682	3.164	7.31	12.04	20.19	13.234	13.98
6/15/2017 3:10	40980.001	683	3.167	7.31	12.05	20.18	13.227	13.988
6/15/2017 3:11	41040.001	684	3.164	7.31	12.04	20.19	13.234	13.988
6/15/2017 3:12	41100.001	685	3.167	7.31	12.05	20.18	13.228	13.958
6/15/2017 3:13	41160.001	686	3.166	7.31	12.05	20.18	13.231	13.962
6/15/2017 3:14	41220.001	687	3.166	7.31	12.05	20.18	13.229	13.973
6/15/2017 3:15	41280.001	688	3.163	7.30	12.04	20.19	13.236	13.98
6/15/2017 3:16	41340.001	689	3.165	7.31	12.05	20.18	13.232	13.956
6/15/2017 3:17	41400.001	690	3.164	7.31	12.04	20.19	13.235	13.949
6/15/2017 3:18	41460.001	691	3.162	7.30	12.04	20.19	13.239	13.986
6/15/2017 3:19	41520.001	692	3.165	7.31	12.05	20.18	13.231	13.984
6/15/2017 3:20	41580.001	693	3.163	7.30	12.04	20.19	13.236	13.991
6/15/2017 3:21	41640.001	694	3.164	7.31	12.04	20.19	13.234	13.978
6/15/2017 3:22	41700.001	695	3.166	7.31	12.05	20.18	13.229	13.98
6/15/2017 3:23	41760.001	696	3.167	7.31	12.05	20.18	13.227	13.994
6/15/2017 3:24	41820.001	697	3.165	7.31	12.05	20.18	13.231	13.994
6/15/2017 3:25	41880.001	698	3.163	7.30	12.04	20.19	13.236	13.992
6/15/2017 3:26	41940.001	699	3.166	7.31	12.05	20.18	13.229	13.965
6/15/2017 3:27	42000.001	700	3.162	7.30	12.04	20.19	13.239	13.993
6/15/2017 3:28	42060.001	701	3.166	7.31	12.05	20.18	13.229	13.995
6/15/2017 3:29	42120.001	702	3.164	7.31	12.04	20.19	13.233	13.96
6/15/2017 3:30	42180.001	703	3.165	7.31	12.05	20.18	13.232	13.995
6/15/2017 3:31	42240.001	704	3.164	7.31	12.04	20.19	13.234	13.973
6/15/2017 3:32	42300.001	705	3.164	7.31	12.04	20.19	13.234	13.975
6/15/2017 3:33	42360.001	706	3.166	7.31	12.05	20.18	13.229	13.951
6/15/2017 3:34	42420.001	707	3.165	7.31	12.05	20.18	13.233	13.982
6/15/2017 3:35	42480.001	708	3.165	7.31	12.05	20.18	13.232	13.976
6/15/2017 3:36	42540.001	709	3.165	7.31	12.05	20.18	13.232	13.976
6/15/2017 3:37	42600.001	710	3.163	7.30	12.04	20.19	13.237	13.974
6/15/2017 3:38	42660.001	711	3.165	7.31	12.05	20.18	13.233	13.962
6/15/2017 3:39	42720.001	712	3.166	7.31	12.05	20.18	13.229	13.975
6/15/2017 3:40	42780.001	713	3.164	7.31	12.04	20.19	13.234	13.96
6/15/2017 3:41	42840.001	714	3.163	7.30	12.04	20.19	13.237	13.977
6/15/2017 3:42	42900.001	715	3.165	7.31	12.05	20.18	13.233	13.979
6/15/2017 3:43	42960.001	716	3.164	7.31	12.04	20.19	13.234	13.972
6/15/2017 3:44	43020.001	717	3.164	7.31	12.04	20.19	13.235	13.962
6/15/2017 3:45	43080.001	718	3.162	7.30	12.04	20.19	13.239	13.962
6/15/2017 3:46	43140.001	719	3.164	7.31	12.04	20.19	13.235	13.956
6/15/2017 3:47	43200.001	720	3.163	7.30	12.04	20.19	13.235	13.994
6/15/2017 3:48	43260.001	721	3.163	7.30	12.04	20.19	13.236	13.988
6/15/2017 3:49	43320.001	722	3.164	7.31	12.04	20.19	13.234	13.991
6/15/2017 3:50	43380.001	723	3.164	7.31	12.04	20.19	13.235	13.963

6/15/2017 3:51	43440.001	724	3.167	7.31	12.05	20.18	13.227	13.969
6/15/2017 3:52	43500.001	725	3.163	7.30	12.04	20.19	13.237	13.97
6/15/2017 3:53	43560.001	726	3.162	7.30	12.04	20.19	13.239	13.997
6/15/2017 3:54	43620.001	727	3.163	7.30	12.04	20.19	13.237	13.988
6/15/2017 3:55	43680.001	728	3.166	7.31	12.05	20.18	13.23	13.986
6/15/2017 3:56	43740.001	729	3.166	7.31	12.05	20.18	13.23	13.999
6/15/2017 3:57	43800.001	730	3.162	7.30	12.04	20.19	13.239	13.988
6/15/2017 3:58	43860.001	731	3.163	7.30	12.04	20.19	13.236	13.979
6/15/2017 3:59	43920.001	732	3.163	7.30	12.04	20.19	13.237	13.973
6/15/2017 4:00	43980.001	733	3.162	7.30	12.04	20.19	13.239	13.982
6/15/2017 4:01	44040.001	734	3.163	7.30	12.04	20.19	13.237	13.986
6/15/2017 4:02	44100.001	735	3.161	7.30	12.04	20.19	13.24	13.977
6/15/2017 4:03	44160.001	736	3.165	7.31	12.05	20.18	13.232	13.984
6/15/2017 4:04	44220.001	737	3.166	7.31	12.05	20.18	13.23	13.992
6/15/2017 4:05	44280.001	738	3.164	7.31	12.04	20.19	13.235	13.99
6/15/2017 4:06	44340.001	739	3.162	7.30	12.04	20.19	13.239	13.969
6/15/2017 4:07	44400.001	740	3.16	7.30	12.03	20.20	13.243	13.993
6/15/2017 4:08	44460.001	741	3.163	7.30	12.04	20.19	13.237	13.968
6/15/2017 4:09	44520.001	742	3.164	7.31	12.04	20.19	13.234	13.994
6/15/2017 4:10	44580.001	743	3.168	7.31	12.05	20.18	13.226	13.972
6/15/2017 4:11	44640.001	744	3.163	7.30	12.04	20.19	13.235	13.976
6/15/2017 4:12	44700.001	745	3.162	7.30	12.04	20.19	13.239	13.98
6/15/2017 4:13	44760.001	746	3.162	7.30	12.04	20.19	13.239	13.989
6/15/2017 4:14	44820.001	747	3.164	7.31	12.04	20.19	13.235	13.972
6/15/2017 4:15	44880.001	748	3.161	7.30	12.04	20.19	13.242	13.958
6/15/2017 4:16	44940.001	749	3.163	7.30	12.04	20.19	13.237	13.988
6/15/2017 4:17	45000.001	750	3.164	7.31	12.04	20.19	13.234	13.985
6/15/2017 4:18	45060.001	751	3.163	7.30	12.04	20.19	13.236	13.969
6/15/2017 4:19	45120.001	752	3.165	7.31	12.05	20.18	13.231	13.983
6/15/2017 4:20	45180.001	753	3.165	7.31	12.05	20.18	13.232	13.956
6/15/2017 4:21	45240.001	754	3.163	7.30	12.04	20.19	13.236	13.949
6/15/2017 4:22	45300.001	755	3.164	7.31	12.04	20.19	13.234	13.975
6/15/2017 4:23	45360.001	756	3.164	7.31	12.04	20.19	13.235	13.967
6/15/2017 4:24	45420.001	757	3.163	7.30	12.04	20.19	13.237	13.996
6/15/2017 4:25	45480.001	758	3.163	7.30	12.04	20.19	13.236	13.96
6/15/2017 4:26	45540.001	759	3.162	7.30	12.04	20.19	13.238	13.963
6/15/2017 4:27	45600.001	760	3.162	7.30	12.04	20.19	13.239	13.964
6/15/2017 4:28	45660.001	761	3.162	7.30	12.04	20.19	13.239	13.97
6/15/2017 4:29	45720.001	762	3.164	7.31	12.04	20.19	13.234	13.981
6/15/2017 4:30	45780.001	763	3.162	7.30	12.04	20.19	13.24	13.964
6/15/2017 4:31	45840.001	764	3.163	7.30	12.04	20.19	13.236	13.972
6/15/2017 4:32	45900.001	765	3.162	7.30	12.04	20.19	13.239	13.992
6/15/2017 4:33	45960.001	766	3.164	7.31	12.04	20.19	13.233	13.967
6/15/2017 4:34	46020.001	767	3.164	7.31	12.04	20.19	13.234	13.979
6/15/2017 4:35	46080.001	768	3.164	7.31	12.04	20.19	13.235	13.983
6/15/2017 4:36	46140.001	769	3.162	7.30	12.04	20.19	13.24	13.966
6/15/2017 4:37	46200.001	770	3.161	7.30	12.04	20.19	13.242	13.986

6/15/2017 4:38	46260.001	771	3.162	7.30	12.04	20.19	13.238	13.989
6/15/2017 4:39	46320.001	772	3.163	7.30	12.04	20.19	13.236	13.986
6/15/2017 4:40	46380.001	773	3.162	7.30	12.04	20.19	13.238	13.985
6/15/2017 4:41	46440.001	774	3.164	7.31	12.04	20.19	13.235	13.969
6/15/2017 4:42	46500.001	775	3.164	7.31	12.04	20.19	13.233	13.977
6/15/2017 4:43	46560.001	776	3.164	7.31	12.04	20.19	13.235	13.966
6/15/2017 4:44	46620.001	777	3.165	7.31	12.05	20.18	13.231	13.955
6/15/2017 4:45	46680.001	778	3.163	7.30	12.04	20.19	13.237	13.996
6/15/2017 4:46	46740.001	779	3.162	7.30	12.04	20.19	13.24	13.956
6/15/2017 4:47	46800.001	780	3.162	7.30	12.04	20.19	13.239	13.965
6/15/2017 4:48	46860.001	781	3.164	7.31	12.04	20.19	13.235	13.967
6/15/2017 4:49	46920.001	782	3.164	7.31	12.04	20.19	13.233	13.991
6/15/2017 4:50	46980.001	783	3.163	7.30	12.04	20.19	13.237	13.953
6/15/2017 4:51	47040.001	784	3.164	7.31	12.04	20.19	13.235	13.962
6/15/2017 4:52	47100.001	785	3.162	7.30	12.04	20.19	13.238	13.977
6/15/2017 4:53	47160.001	786	3.164	7.31	12.04	20.19	13.233	13.966
6/15/2017 4:54	47220.001	787	3.163	7.30	12.04	20.19	13.236	13.98
6/15/2017 4:55	47280.001	788	3.161	7.30	12.04	20.19	13.24	13.985
6/15/2017 4:56	47340.001	789	3.164	7.31	12.04	20.19	13.234	13.986
6/15/2017 4:57	47400.001	790	3.161	7.30	12.04	20.19	13.241	13.968
6/15/2017 4:58	47460.001	791	3.162	7.30	12.04	20.19	13.238	13.99
6/15/2017 4:59	47520.001	792	3.163	7.30	12.04	20.19	13.237	13.968
6/15/2017 5:00	47580.001	793	3.161	7.30	12.04	20.19	13.241	13.977
6/15/2017 5:01	47640.001	794	3.16	7.30	12.03	20.20	13.243	13.974
6/15/2017 5:02	47700.001	795	3.162	7.30	12.04	20.19	13.239	13.949
6/15/2017 5:03	47760.001	796	3.162	7.30	12.04	20.19	13.238	13.96
6/15/2017 5:04	47820.001	797	3.159	7.29	12.03	20.20	13.246	13.981
6/15/2017 5:05	47880.001	798	3.16	7.30	12.03	20.20	13.242	13.972
6/15/2017 5:06	47940.001	799	3.159	7.29	12.03	20.20	13.246	13.96
6/15/2017 5:07	48000.001	800	3.16	7.30	12.03	20.20	13.243	13.962
6/15/2017 5:08	48060.001	801	3.161	7.30	12.04	20.19	13.241	13.961
6/15/2017 5:09	48120.001	802	3.16	7.30	12.03	20.20	13.243	13.946
6/15/2017 5:10	48180.001	803	3.162	7.30	12.04	20.19	13.239	13.972
6/15/2017 5:11	48240.001	804	3.16	7.30	12.03	20.20	13.244	13.975
6/15/2017 5:12	48300.001	805	3.161	7.30	12.04	20.19	13.241	13.963
6/15/2017 5:13	48360.001	806	3.16	7.30	12.03	20.20	13.242	13.962
6/15/2017 5:14	48420.001	807	3.159	7.29	12.03	20.20	13.246	13.946
6/15/2017 5:15	48480.001	808	3.159	7.29	12.03	20.20	13.246	13.973
6/15/2017 5:16	48540.001	809	3.159	7.29	12.03	20.20	13.246	13.955
6/15/2017 5:17	48600.001	810	3.161	7.30	12.04	20.19	13.242	13.974
6/15/2017 5:18	48660.001	811	3.159	7.29	12.03	20.20	13.246	13.978
6/15/2017 5:19	48720.001	812	3.159	7.29	12.03	20.20	13.246	13.962
6/15/2017 5:20	48780.001	813	3.16	7.30	12.03	20.20	13.242	13.937
6/15/2017 5:21	48840.001	814	3.159	7.29	12.03	20.20	13.245	13.983
6/15/2017 5:22	48900.001	815	3.16	7.30	12.03	20.20	13.244	13.972
6/15/2017 5:23	48960.001	816	3.156	7.29	12.02	20.21	13.252	13.954
6/15/2017 5:24	49020.001	817	3.159	7.29	12.03	20.20	13.244	13.994

6/15/2017 5:25	49080.001	818	3.159	7.29	12.03	20.20	13.246	13.988
6/15/2017 5:26	49140.001	819	3.158	7.29	12.03	20.20	13.248	13.986
6/15/2017 5:27	49200.001	820	3.159	7.29	12.03	20.20	13.245	13.942
6/15/2017 5:28	49260.001	821	3.157	7.29	12.03	20.20	13.25	13.966
6/15/2017 5:29	49320.001	822	3.157	7.29	12.03	20.20	13.249	13.994
6/15/2017 5:30	49380.001	823	3.157	7.29	12.03	20.20	13.25	13.978
6/15/2017 5:31	49440.001	824	3.16	7.30	12.03	20.20	13.244	13.964
6/15/2017 5:32	49500.001	825	3.159	7.29	12.03	20.20	13.245	13.969
6/15/2017 5:33	49560.001	826	3.157	7.29	12.03	20.20	13.251	13.977
6/15/2017 5:34	49620.001	827	3.159	7.29	12.03	20.20	13.246	13.981
6/15/2017 5:35	49680.001	828	3.157	7.29	12.03	20.20	13.251	13.968
6/15/2017 5:36	49740.001	829	3.156	7.29	12.02	20.21	13.251	13.95
6/15/2017 5:37	49800.001	830	3.155	7.28	12.02	20.21	13.254	13.96
6/15/2017 5:38	49860.001	831	3.159	7.29	12.03	20.20	13.244	13.964
6/15/2017 5:39	49920.001	832	3.159	7.29	12.03	20.20	13.246	13.957
6/15/2017 5:40	49980.001	833	3.157	7.29	12.03	20.20	13.251	13.945
6/15/2017 5:41	50040.001	834	3.157	7.29	12.03	20.20	13.251	13.972
6/15/2017 5:42	50100.001	835	3.159	7.29	12.03	20.20	13.246	13.952
6/15/2017 5:43	50160.001	836	3.159	7.29	12.03	20.20	13.246	13.96
6/15/2017 5:44	50220.001	837	3.158	7.29	12.03	20.20	13.248	13.963
6/15/2017 5:45	50280.001	838	3.156	7.29	12.02	20.21	13.252	13.958
6/15/2017 5:46	50340.001	839	3.154	7.28	12.02	20.21	13.258	13.988
6/15/2017 5:47	50400.001	840	3.158	7.29	12.03	20.20	13.248	13.956
6/15/2017 5:48	50460.001	841	3.157	7.29	12.03	20.20	13.25	13.95
6/15/2017 5:49	50520.001	842	3.156	7.29	12.02	20.21	13.253	13.947
6/15/2017 5:50	50580.001	843	3.154	7.28	12.02	20.21	13.257	13.98
6/15/2017 5:51	50640.001	844	3.155	7.28	12.02	20.21	13.255	13.973
6/15/2017 5:52	50700.001	845	3.155	7.28	12.02	20.21	13.254	13.968
6/15/2017 5:53	50760.001	846	3.158	7.29	12.03	20.20	13.248	13.991
6/15/2017 5:54	50820.001	847	3.156	7.29	12.02	20.21	13.252	13.956
6/15/2017 5:55	50880.001	848	3.156	7.29	12.02	20.21	13.252	14.013
6/15/2017 5:56	50940.001	849	3.158	7.29	12.03	20.20	13.248	13.962
6/15/2017 5:57	51000.001	850	3.156	7.29	12.02	20.21	13.253	13.951
6/15/2017 5:58	51060.001	851	3.155	7.28	12.02	20.21	13.255	13.959
6/15/2017 5:59	51120.001	852	3.158	7.29	12.03	20.20	13.248	13.953
6/15/2017 6:00	51180.001	853	3.157	7.29	12.03	20.20	13.251	13.952
6/15/2017 6:01	51240.001	854	3.157	7.29	12.03	20.21	13.252	13.957
6/15/2017 6:02	51300.001	855	3.156	7.29	12.02	20.21	13.252	13.935
6/15/2017 6:03	51360.001	856	3.156	7.29	12.02	20.21	13.252	13.972
6/15/2017 6:04	51420.001	857	3.156	7.29	12.02	20.21	13.254	13.98
6/15/2017 6:05	51480.001	858	3.156	7.29	12.02	20.21	13.252	13.975
6/15/2017 6:06	51540.001	859	3.157	7.29	12.03	20.20	13.251	13.987
6/15/2017 6:07	51600.001	860	3.152	7.28	12.02	20.21	13.262	13.946
6/15/2017 6:08	51660.001	861	3.155	7.28	12.02	20.21	13.254	13.98
6/15/2017 6:09	51720.001	862	3.16	7.30	12.03	20.20	13.242	13.974
6/15/2017 6:10	51780.001	863	3.155	7.28	12.02	20.21	13.254	13.944
6/15/2017 6:11	51840.001	864	3.155	7.28	12.02	20.21	13.255	

6/15/2017 6:12	51900.001	865	3.156	7.29	12.02	20.21	13.252	13.97
6/15/2017 6:13	51960.001	866	3.156	7.29	12.02	20.21	13.252	13.979
6/15/2017 6:14	52020.001	867	3.154	7.28	12.02	20.21	13.258	13.969
6/15/2017 6:15	52080.001	868	3.154	7.28	12.02	20.21	13.258	13.976
6/15/2017 6:16	52140.001	869	3.156	7.29	12.02	20.21	13.253	13.948
6/15/2017 6:17	52200.001	870	3.154	7.28	12.02	20.21	13.258	13.962
6/15/2017 6:18	52260.001	871	3.154	7.28	12.02	20.21	13.257	13.964
6/15/2017 6:19	52320.001	872	3.154	7.28	12.02	20.21	13.258	13.98
6/15/2017 6:20	52380.001	873	3.154	7.28	12.02	20.21	13.258	13.966
6/15/2017 6:21	52440.001	874	3.154	7.28	12.02	20.21	13.257	13.959
6/15/2017 6:22	52500.001	875	3.154	7.28	12.02	20.21	13.258	13.975
6/15/2017 6:23	52560.001	876	3.153	7.28	12.02	20.21	13.259	14.005
6/15/2017 6:24	52620.001	877	3.153	7.28	12.02	20.21	13.26	13.983
6/15/2017 6:25	52680.001	878	3.153	7.28	12.02	20.21	13.259	13.969
6/15/2017 6:26	52740.001	879	3.15	7.27	12.01	20.22	13.265	13.954
6/15/2017 6:27	52800.001	880	3.154	7.28	12.02	20.21	13.256	13.99
6/15/2017 6:28	52860.001	881	3.155	7.28	12.02	20.21	13.255	13.964
6/15/2017 6:29	52920.001	882	3.156	7.29	12.02	20.21	13.254	13.953
6/15/2017 6:30	52980.001	883	3.153	7.28	12.02	20.21	13.26	13.975
6/15/2017 6:31	53040.001	884	3.152	7.28	12.02	20.21	13.262	13.972
6/15/2017 6:32	53100.001	885	3.152	7.28	12.02	20.21	13.262	13.942
6/15/2017 6:33	53160.001	886	3.15	7.27	12.01	20.22	13.266	13.937
6/15/2017 6:34	53220.001	887	3.15	7.27	12.01	20.22	13.267	13.969
6/15/2017 6:35	53280.001	888	3.153	7.28	12.02	20.21	13.259	13.956
6/15/2017 6:36	53340.001	889	3.151	7.28	12.01	20.22	13.264	13.964
6/15/2017 6:37	53400.001	890	3.152	7.28	12.02	20.21	13.261	13.958
6/15/2017 6:38	53460.001	891	3.152	7.28	12.02	20.21	13.263	13.97
6/15/2017 6:39	53520.001	892	3.151	7.28	12.01	20.22	13.265	13.956
6/15/2017 6:40	53580.001	893	3.15	7.27	12.01	20.22	13.267	13.98
6/15/2017 6:41	53640.001	894	3.151	7.28	12.01	20.22	13.264	13.966
6/15/2017 6:42	53700.001	895	3.154	7.28	12.02	20.21	13.264	13.957
6/15/2017 6:43	53760.001	896	3.152	7.28	12.02	20.21	13.258	13.945
6/15/2017 6:44	53820.001	897	3.152	7.28	12.02	20.21	13.261	13.946
6/15/2017 6:45	53880.001	898	3.149	7.27	12.01	20.22	13.268	13.936
6/15/2017 6:46	53940.001	899	3.153	7.28	12.02	20.21	13.259	13.935
6/15/2017 6:47	54000.001	900	3.152	7.28	12.02	20.21	13.263	13.975
6/15/2017 6:48	54060.001	901	3.149	7.27	12.01	20.22	13.269	13.959
6/15/2017 6:49	54120.001	902	3.153	7.28	12.02	20.21	13.259	13.981
6/15/2017 6:50	54180.001	903	3.151	7.28	12.01	20.22	13.264	13.983
6/15/2017 6:51	54240.001	904	3.153	7.28	12.02	20.21	13.26	13.963
6/15/2017 6:52	54300.001	905	3.149	7.27	12.01	20.22	13.268	13.958
6/15/2017 6:53	54360.001	906	3.151	7.28	12.01	20.22	13.264	14.005
6/15/2017 6:54	54420.001	907	3.152	7.28	12.02	20.21	13.262	13.958
6/15/2017 6:55	54480.001	908	3.151	7.28	12.01	20.22	13.264	13.954
6/15/2017 6:56	54540.001	909	3.151	7.28	12.01	20.22	13.265	13.961
6/15/2017 6:57	54600.001	910	3.15	7.27	12.01	20.22	13.266	13.945
6/15/2017 6:58	54660.001	911	3.15	7.27	12.01	20.22	13.265	13.968

6/15/2017 6:59	54720.001	912	3.148	7.27	12.01	20.22	13.272	13.978
6/15/2017 7:00	54780.001	913	3.149	7.27	12.01	20.22	13.268	13.953
6/15/2017 7:01	54840.001	914	3.15	7.27	12.01	20.22	13.266	13.955
6/15/2017 7:02	54900.001	915	3.15	7.27	12.01	20.22	13.267	13.986
6/15/2017 7:03	54960.001	916	3.149	7.27	12.01	20.22	13.269	13.954
6/15/2017 7:04	55020.001	917	3.151	7.28	12.01	20.22	13.265	13.953
6/15/2017 7:05	55080.001	918	3.149	7.27	12.01	20.22	13.268	13.953
6/15/2017 7:06	55140.001	919	3.153	7.28	12.02	20.21	13.26	13.954
6/15/2017 7:07	55200.001	920	3.15	7.27	12.01	20.22	13.267	13.962
6/15/2017 7:08	55260.001	921	3.148	7.27	12.01	20.22	13.271	13.948
6/15/2017 7:09	55320.001	922	3.148	7.27	12.01	20.22	13.27	13.956
6/15/2017 7:10	55380.001	923	3.149	7.27	12.01	20.22	13.268	13.943
6/15/2017 7:11	55440.001	924	3.151	7.28	12.01	20.22	13.263	13.944
6/15/2017 7:12	55500.001	925	3.15	7.27	12.01	20.22	13.265	13.956
6/15/2017 7:13	55560.001	926	3.15	7.27	12.01	20.22	13.266	13.961
6/15/2017 7:14	55620.001	927	3.151	7.28	12.01	20.22	13.264	13.953
6/15/2017 7:15	55680.001	928	3.152	7.28	12.02	20.21	13.262	13.966
6/15/2017 7:16	55740.001	929	3.15	7.27	12.01	20.22	13.266	13.977
6/15/2017 7:17	55800.001	930	3.15	7.27	12.01	20.22	13.267	13.935
6/15/2017 7:18	55860.001	931	3.149	7.27	12.01	20.22	13.268	13.962
6/15/2017 7:19	55920.001	932	3.152	7.28	12.02	20.21	13.261	13.942
6/15/2017 7:20	55980.001	933	3.147	7.27	12.00	20.23	13.273	13.969
6/15/2017 7:21	56040.001	934	3.148	7.27	12.01	20.22	13.27	13.981
6/15/2017 7:22	56100.001	935	3.15	7.27	12.01	20.22	13.266	13.982
6/15/2017 7:23	56160.001	936	3.15	7.27	12.01	20.22	13.267	13.969
6/15/2017 7:24	56220.001	937	3.151	7.28	12.01	20.22	13.264	13.97
6/15/2017 7:25	56280.001	938	3.15	7.27	12.01	20.22	13.266	13.948
6/15/2017 7:26	56340.001	939	3.151	7.28	12.01	20.22	13.263	13.981
6/15/2017 7:27	56400.001	940	3.148	7.27	12.01	20.22	13.27	13.984
6/15/2017 7:28	56460.001	941	3.15	7.27	12.01	20.22	13.266	13.952
6/15/2017 7:29	56520.001	942	3.148	7.27	12.01	20.22	13.27	13.965
6/15/2017 7:30	56580.001	943	3.148	7.27	12.01	20.22	13.271	13.973
6/15/2017 7:31	56640.001	944	3.146	7.26	12.00	20.23	13.275	13.946
6/15/2017 7:32	56700.001	945	3.15	7.27	12.01	20.22	13.266	13.978
6/15/2017 7:33	56760.001	946	3.149	7.27	12.01	20.22	13.268	13.96
6/15/2017 7:34	56820.001	947	3.147	7.27	12.00	20.23	13.273	13.962
6/15/2017 7:35	56880.001	948	3.149	7.27	12.01	20.22	13.269	13.975
6/15/2017 7:36	56940.001	949	3.147	7.27	12.00	20.23	13.274	13.959
6/15/2017 7:37	57000.001	950	3.144	7.26	12.00	20.23	13.279	13.954
6/15/2017 7:38	57060.001	951	3.147	7.27	12.00	20.23	13.273	13.963
6/15/2017 7:39	57120.001	952	3.147	7.27	12.00	20.23	13.274	13.972
6/15/2017 7:40	57180.001	953	3.147	7.27	12.00	20.23	13.273	13.956
6/15/2017 7:41	57240.001	954	3.147	7.27	12.00	20.23	13.273	13.942
6/15/2017 7:42	57300.001	955	3.145	7.26	12.00	20.23	13.279	13.948
6/15/2017 7:43	57360.001	956	3.146	7.26	12.00	20.23	13.276	13.953
6/15/2017 7:44	57420.001	957	3.144	7.26	12.00	20.23	13.281	13.947
6/15/2017 7:45	57480.001	958	3.146	7.26	12.00	20.23	13.277	13.956

APPENDIX D

PUMPING TEST DATA

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Project	Orange County Landfill	Dates	6/15/2017
Location	New Hampton, NY	Pumping Well	RW-17-1
Well No.	RW-17-1	Measuring Point	Top of PVC Riser

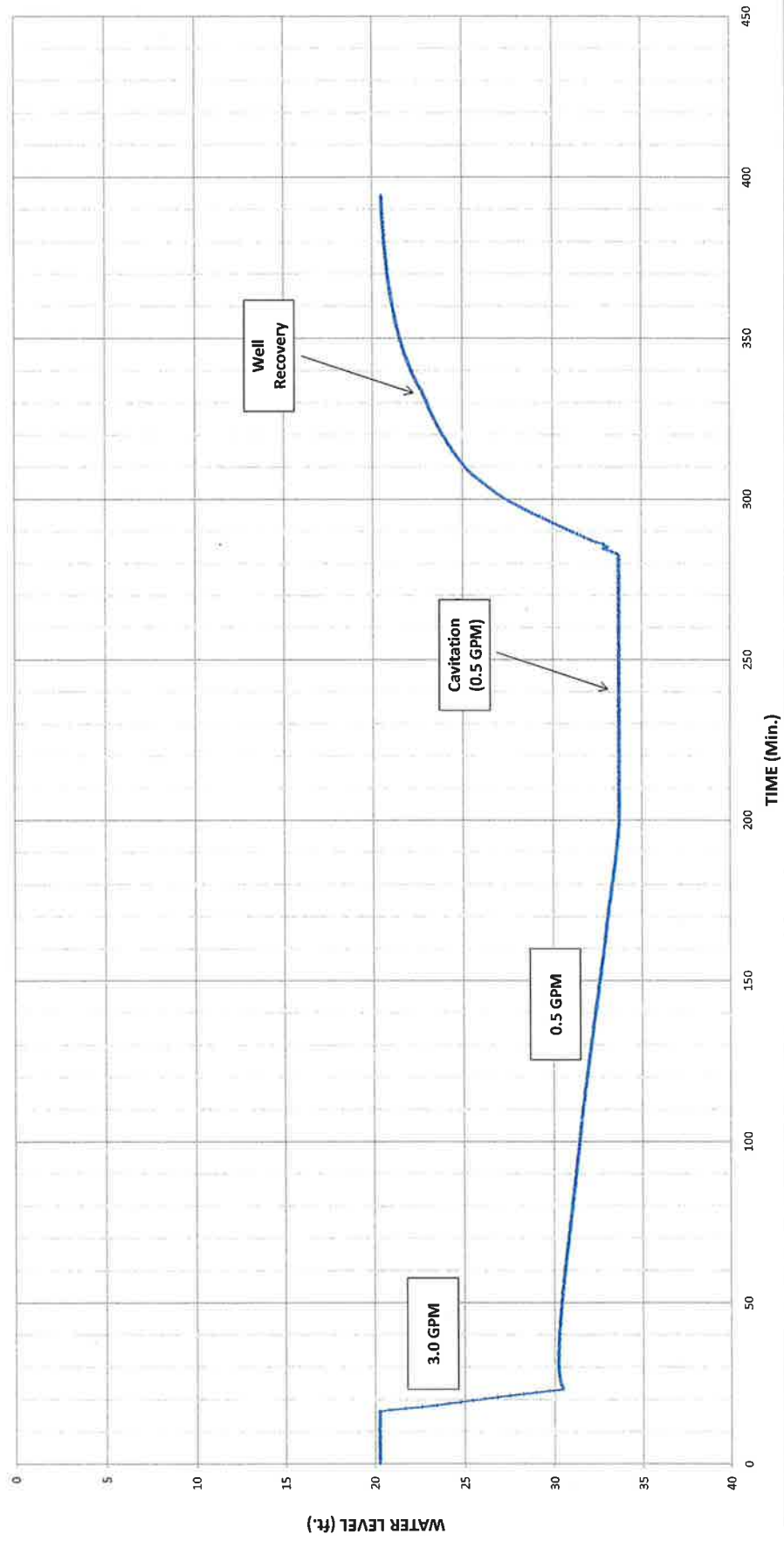
Date	Time	Water Level (Feet)	Pumping Rate (GPM)	Remarks
6/15/2017	8:30	20.25	0.0	Before Pumping Test
6/15/2017	8:38	---	3.0	Pump Test Start
6/15/2017	8:42	25.85	2.0	
6/15/2017	8:46	---	0.5	
6/15/2017	8:50	30.25	0.5	
6/15/2017	8:55	30.26	0.5	
6/15/2017	9:03	30.31	0.5	
6/15/2017	9:15	30.52	0.5	
6/15/2017	9:37	30.95	0.5	
6/15/2017	10:13	31.73	0.5	
6/15/2017	10:34	32.25	0.5	
6/15/2017	11:12	33.14	0.5	
6/15/2017	11:43	33.79	0.5	
6/15/2017	12:00	33.8	0.5	
6/15/2017	12:20	33.79	0.5	
6/15/2017	12:44	33.79	0.5	
6/15/2017	13:05	---	0.0	
6/15/2017	13:12	31.2	0.0	
6/15/2017	14:08	23.81	0.0	
6/15/2017	14:29	20.94	0.0	
6/15/2017	14:41	20.7	0.0	
6/15/2017	14:50	20.6	0.0	
6/15/2017	14:55	20.55	0.0	Transducer Stopped
6/15/2017	15:33	20.4	0.0	

Latham, New York 12110

Pumping Well RW-17-1

S:\Sterling\Projects\2010 Projects\Orange County - 2010-15\Field Investigations\Pumping Test_RW-17-1\Pumping Test Data\RW-17-1WQ Pumping Test

RW-17-1 Pumping Test - 6/15/2017



Report Date: 6/16/2017 11:37

Report User Name: spauldingj

Report Computer Name: LAPTOP04

Application: WinSitu.exe

Application Version: 5.6.25.0

Log File Properties

File Name RW-17-1 (Pump)_2017-06-15_14-56-42-176.wsl

Create Date 6/15/2017 14:56

Device Properties

Device Level TROLL 700

Site Orange County Landfill

Device Name 477224

Serial Number 3.03

Firmware Version 5

Hardware Version 1

Device Address 19200

Device Comm Cfg 3

Used Memory 4

Used Battery

Log Configuration

Log Name

Created By

Computer Name

Application

Application Version

Create Date

Log Setup Time Zone

Notes Size(bytes)

Overwrite when full

Scheduled Start Time

Scheduled Stop Time

Type

Interval

RW-17-1 (Pump)

Spauldingj

LAPTOP04

WinSitu.exe

5.6.25.0

6/15/2017 8:22:02 AM Eastern Daylight Time

Eastern Daylight Time

4096

Disabled

Manual Start

No Stop Time

Fast Linear

Days: 0 hrs: 00 mins: 00 secs: 30

Level Reference Settings At Log Creation

Level Measurement Mode

Specific Gravity

Depth

0.999

19.596

20.339

33.254

1

2

3

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8 Even

1

Other Log Settings

Depth of Probe: 14.0166 (ft)
Head Pressure: 6.07052 (PSI)
Temperature: 14.273 (C)

Log Notes:

Date and Time Note

6/15/2017 8:22 Used Battery: 4% Used Memory: 3% User Name: SpauldingJ
6/15/2017 8:22 Manual Start Command
6/15/2017 14:56 Suspend Command
6/15/2017 14:56 Log Download - Used Battery: 4% Used Memory: 3% User Name: SpauldingJ

Log Data:

Record Count 789

Sensors

1
1

477224 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time		Sensor: Pres(G) 35ft SN#: 477224		Sensor: Pres(G) 35ft SN#: 477224		Sensor: Pres(G) 35ft SN#: 477224	
	Seconds	Minutes	Pressure (PSI)	Depth (ft)	Calculation	Water Level (ft)	Temperature (C)	
6/15/2017 8:22	0	0	0	6.069	14.012	17.26	20.25	14.274
6/15/2017 8:22	30.001	30.001	0.5	6.07	14.015	17.263	20.247	14.268
6/15/2017 8:23	60.001	60.001	1	6.07	14.015	17.263	20.247	14.271
6/15/2017 8:23	90.001	90.001	1.5	6.071	14.017	17.265	20.245	14.239
6/15/2017 8:24	120.001	120.001	2	6.073	14.022	17.27	20.24	14.263
6/15/2017 8:24	150.001	150.001	2.5	6.073	14.022	17.27	20.24	14.226
6/15/2017 8:25	180.001	180.001	3	6.071	14.018	17.266	20.244	14.245
6/15/2017 8:25	210.001	210.001	3.5	6.071	14.017	17.265	20.245	14.247
6/15/2017 8:26	240.001	240.001	4	6.072	14.02	17.268	20.242	14.253
6/15/2017 8:26	270.001	270.001	4.5	6.071	14.018	17.266	20.244	14.245
6/15/2017 8:27	300.001	300.001	5	6.072	14.02	17.268	20.242	14.25
6/15/2017 8:27	330.001	330.001	5.5	6.07	14.016	17.264	20.246	14.237
6/15/2017 8:28	360.001	360.001	6	6.072	14.02	17.268	20.242	14.24
6/15/2017 8:28	390.001	390.001	6.5	6.074	14.025	17.273	20.237	14.232
6/15/2017 8:29	420.001	420.001	7	6.072	14.021	17.269	20.241	14.23
6/15/2017 8:29	450.001	450.001	7.5	6.074	14.025	17.273	20.237	14.24
6/15/2017 8:30	480.001	480.001	8	6.072	14.021	17.269	20.241	14.221
6/15/2017 8:30	510.001	510.001	8.5	6.074	14.025	17.273	20.237	14.25
6/15/2017 8:31	540.001	540.001	9	6.073	14.023	17.271	20.239	14.236
6/15/2017 8:31	570.001	570.001	9.5	6.072	14.019	17.267	20.243	14.221

6/15/2017 8:32	600.001	10	6.074	14.024	17.272	20.238	14.22
6/15/2017 8:32	630.001	10.5	6.074	14.025	17.273	20.237	14.231
6/15/2017 8:33	660.001	11	6.071	14.017	17.265	20.245	14.249
6/15/2017 8:33	690.001	11.5	6.072	14.019	17.267	20.243	14.227
6/15/2017 8:34	720.001	12	6.072	14.019	17.267	20.243	14.255
6/15/2017 8:34	750.001	12.5	6.071	14.018	17.266	20.244	14.239
6/15/2017 8:35	780.001	13	6.071	14.017	17.265	20.245	14.23
6/15/2017 8:35	810.001	13.5	6.071	14.017	17.265	20.245	14.254
6/15/2017 8:36	840.001	14	6.068	14.011	17.259	20.251	14.219
6/15/2017 8:36	870.001	14.5	6.071	14.017	17.265	20.245	14.234
6/15/2017 8:37	900.001	15	6.071	14.018	17.266	20.244	14.269
6/15/2017 8:37	930.001	15.5	6.071	14.018	17.266	20.244	14.243
6/15/2017 8:38	960.001	16	6.072	14.02	17.268	20.242	14.249
6/15/2017 8:38	990.001	16.5	5.83	13.462	16.71	20.8	14.244
6/15/2017 8:39	1020.001	17	5.448	12.58	15.828	21.682	14.242
6/15/2017 8:39	1050.001	17.5	5.062	11.687	14.935	22.575	14.265
6/15/2017 8:40	1080.001	18	4.699	10.85	14.098	23.412	14.281
6/15/2017 8:40	1110.001	18.5	4.411	10.185	13.433	24.077	14.326
6/15/2017 8:41	1140.001	19	4.13	9.536	12.784	24.726	14.394
6/15/2017 8:41	1170.001	19.5	3.848	8.885	12.133	25.377	14.434
6/15/2017 8:42	1200.001	20	3.546	8.187	11.435	26.075	14.503
6/15/2017 8:42	1230.001	20.5	3.241	7.484	10.732	26.778	14.564
6/15/2017 8:43	1260.001	21	2.938	6.783	10.031	27.479	14.604
6/15/2017 8:43	1290.001	21.5	2.614	6.037	9.285	28.225	14.616
6/15/2017 8:44	1320.001	22	2.306	5.324	8.572	28.938	14.64
6/15/2017 8:44	1350.001	22.5	1.984	4.58	7.828	29.682	14.645
6/15/2017 8:45	1380.001	23	1.658	3.828	7.076	30.434	14.632
6/15/2017 8:45	1410.001	23.5	1.656	3.824	7.072	30.438	14.634
6/15/2017 8:46	1440.001	24	1.677	3.872	7.12	30.39	14.689
6/15/2017 8:46	1470.001	24.5	1.692	3.907	7.155	30.355	14.683
6/15/2017 8:47	1500.001	25	1.711	3.95	7.198	30.312	14.735
6/15/2017 8:47	1530.001	25.5	1.714	3.958	7.206	30.304	14.778
6/15/2017 8:48	1560.001	26	1.727	3.989	7.237	30.273	14.832
6/15/2017 8:48	1590.001	26.5	1.736	4.008	7.256	30.254	14.904
6/15/2017 8:49	1620.001	27	1.741	4.02	7.268	30.242	14.974
6/15/2017 8:49	1650.001	27.5	1.743	4.026	7.274	30.236	15.014
6/15/2017 8:50	1680.001	28	1.75	4.042	7.29	30.22	15.045
6/15/2017 8:50	1710.001	28.5	1.753	4.049	7.297	30.213	15.139
6/15/2017 8:51	1740.001	29	1.757	4.057	7.305	30.205	15.188
6/15/2017 8:51	1770.001	29.5	1.758	4.06	7.308	30.202	15.218
6/15/2017 8:52	1800.001	30	1.753	4.047	7.295	30.215	15.241
6/15/2017 8:52	1830.001	30.5	1.762	4.068	7.316	30.194	15.273
6/15/2017 8:53	1860.001	31	1.76	4.063	7.311	30.199	15.294
6/15/2017 8:53	1890.001	31.5	1.761	4.067	7.315	30.195	15.331
6/15/2017 8:54	1920.001	32	1.759	4.061	7.309	30.201	15.358
6/15/2017 8:54	1950.001	32.5	1.762	4.067	7.315	30.195	15.416
6/15/2017 8:55	1980.001	33	1.76	4.064	7.312	30.198	15.452

6/15/2017 8:55	2010.001	33.5	1.762	4.067	7.315	30.195	15.48
6/15/2017 8:56	2040.001	34	1.763	4.07	7.318	30.192	15.516
6/15/2017 8:56	2070.001	34.5	1.758	4.058	7.306	30.204	15.523
6/15/2017 8:57	2100.001	35	1.757	4.057	7.305	30.205	15.563
6/15/2017 8:57	2130.001	35.5	1.754	4.049	7.297	30.213	15.602
6/15/2017 8:58	2160.001	36	1.75	4.041	7.289	30.221	15.618
6/15/2017 8:58	2190.001	36.5	1.753	4.047	7.295	30.215	15.641
6/15/2017 8:59	2220.001	37	1.755	4.052	7.3	30.21	15.644
6/15/2017 8:59	2250.001	37.5	1.751	4.044	7.292	30.218	15.664
6/15/2017 9:00	2280.001	38	1.752	4.045	7.293	30.217	15.707
6/15/2017 9:00	2310.001	38.5	1.744	4.026	7.274	30.236	15.68
6/15/2017 9:01	2340.001	39	1.747	4.034	7.282	30.228	15.689
6/15/2017 9:01	2370.001	39.5	1.742	4.023	7.271	30.239	15.739
6/15/2017 9:02	2400.001	40	1.736	4.009	7.257	30.253	15.751
6/15/2017 9:02	2430.001	40.5	1.74	4.017	7.265	30.245	15.731
6/15/2017 9:03	2460.001	41	1.736	4.009	7.257	30.253	15.793
6/15/2017 9:03	2490.001	41.5	1.735	4.006	7.254	30.256	15.781
6/15/2017 9:04	2520.001	42	1.731	3.998	7.246	30.264	15.774
6/15/2017 9:04	2550.001	42.5	1.727	3.988	7.236	30.274	15.792
6/15/2017 9:05	2580.001	43	1.724	3.98	7.228	30.282	15.854
6/15/2017 9:05	2610.001	43.5	1.719	3.97	7.218	30.292	15.836
6/15/2017 9:06	2640.001	44	1.723	3.978	7.226	30.284	15.839
6/15/2017 9:06	2670.001	44.5	1.714	3.957	7.205	30.305	15.855
6/15/2017 9:07	2700.001	45	1.713	3.955	7.203	30.307	15.857
6/15/2017 9:07	2730.001	45.5	1.706	3.94	7.188	30.322	15.901
6/15/2017 9:08	2760.001	46	1.703	3.931	7.179	30.331	15.892
6/15/2017 9:08	2790.001	46.5	1.698	3.92	7.168	30.342	15.893
6/15/2017 9:09	2820.001	47	1.699	3.924	7.172	30.338	15.905
6/15/2017 9:09	2850.001	47.5	1.695	3.913	7.161	30.349	15.898
6/15/2017 9:10	2880.001	48	1.692	3.906	7.154	30.356	15.919
6/15/2017 9:10	2910.001	48.5	1.688	3.898	7.146	30.364	15.923
6/15/2017 9:11	2940.001	49	1.687	3.896	7.144	30.366	15.89
6/15/2017 9:11	2970.001	49.5	1.681	3.881	7.129	30.381	15.936
6/15/2017 9:12	3000.001	50	1.675	3.868	7.116	30.394	15.94
6/15/2017 9:12	3030.001	50.5	1.671	3.858	7.106	30.404	15.956
6/15/2017 9:13	3060.001	51	1.666	3.846	7.094	30.416	15.959
6/15/2017 9:13	3090.001	51.5	1.665	3.845	7.093	30.417	15.988
6/15/2017 9:14	3120.001	52	1.661	3.834	7.082	30.428	15.97
6/15/2017 9:14	3150.001	52.5	1.659	3.831	7.079	30.431	15.967
6/15/2017 9:15	3180.001	53	1.662	3.838	7.086	30.424	15.982
6/15/2017 9:15	3210.001	53.5	1.651	3.812	7.06	30.45	16.018
6/15/2017 9:16	3240.001	54	1.644	3.797	7.045	30.465	16.05
6/15/2017 9:16	3270.001	54.5	1.639	3.785	7.033	30.477	16.08
6/15/2017 9:17	3300.001	55	1.634	3.773	7.021	30.489	16.074
6/15/2017 9:17	3330.039	55.5	1.636	3.778	7.026	30.484	16.103
6/15/2017 9:18	3360.067	56	1.624	3.75	6.998	30.512	16.138
6/15/2017 9:18	3390.001	56.5	1.623	3.748	6.996	30.514	16.152

6/15/2017 9:19	3420.001	57	1.623	3.748	6.996	30.514	16.167
6/15/2017 9:19	3450.009	57.5	1.615	3.73	6.978	30.532	16.147
6/15/2017 9:20	3480.052	58	1.615	3.729	6.977	30.533	16.189
6/15/2017 9:20	3510.095	58.5	1.61	3.718	6.966	30.544	16.187
6/15/2017 9:21	3540.001	59	1.604	3.704	6.952	30.558	16.186
6/15/2017 9:21	3570.009	59.5	1.602	3.7	6.948	30.562	16.186
6/15/2017 9:22	3600.053	60	1.592	3.675	6.923	30.587	16.188
6/15/2017 9:22	3630.095	60.5	1.592	3.676	6.924	30.586	16.174
6/15/2017 9:23	3660.001	61	1.583	3.656	6.904	30.606	16.163
6/15/2017 9:23	3690.001	61.5	1.581	3.65	6.898	30.612	16.187
6/15/2017 9:24	3720.001	62	1.576	3.639	6.887	30.623	16.162
6/15/2017 9:24	3750.001	62.5	1.568	3.62	6.868	30.642	16.189
6/15/2017 9:25	3780.001	63	1.574	3.635	6.883	30.627	16.189
6/15/2017 9:25	3810.001	63.5	1.564	3.612	6.86	30.65	16.206
6/15/2017 9:26	3840.001	64	1.56	3.601	6.849	30.661	16.223
6/15/2017 9:26	3870.001	64.5	1.557	3.595	6.843	30.667	16.178
6/15/2017 9:27	3900.001	65	1.548	3.574	6.822	30.688	16.189
6/15/2017 9:27	3930.001	65.5	1.545	3.568	6.816	30.694	16.208
6/15/2017 9:28	3960.001	66	1.542	3.561	6.809	30.701	16.228
6/15/2017 9:28	3990.001	66.5	1.532	3.537	6.785	30.725	16.184
6/15/2017 9:29	4020.001	67	1.528	3.527	6.775	30.735	16.213
6/15/2017 9:29	4050.001	67.5	1.526	3.523	6.771	30.739	16.206
6/15/2017 9:30	4080.001	68	1.52	3.51	6.758	30.752	16.206
6/15/2017 9:30	4110.001	68.5	1.521	3.512	6.76	30.75	16.198
6/15/2017 9:31	4140.001	69	1.508	3.482	6.73	30.78	16.232
6/15/2017 9:31	4170.001	69.5	1.506	3.477	6.725	30.785	16.182
6/15/2017 9:32	4200.001	70	1.5	3.463	6.711	30.799	16.223
6/15/2017 9:32	4230.001	70.5	1.502	3.469	6.717	30.793	16.184
6/15/2017 9:33	4260.001	71	1.491	3.443	6.691	30.819	16.204
6/15/2017 9:33	4290.001	71.5	1.49	3.44	6.688	30.822	16.222
6/15/2017 9:34	4320.001	72	1.48	3.416	6.664	30.846	16.219
6/15/2017 9:34	4350.001	72.5	1.472	3.4	6.648	30.862	16.202
6/15/2017 9:35	4380.001	73	1.47	3.394	6.642	30.868	16.164
6/15/2017 9:35	4410.001	73.5	1.468	3.391	6.639	30.871	16.202
6/15/2017 9:36	4440.001	74	1.467	3.387	6.635	30.875	16.226
6/15/2017 9:36	4470.001	74.5	1.459	3.368	6.616	30.894	16.229
6/15/2017 9:37	4500.001	75	1.457	3.364	6.612	30.898	16.176
6/15/2017 9:37	4530.001	75.5	1.451	3.35	6.598	30.912	16.139
6/15/2017 9:38	4560.001	76	1.445	3.336	6.584	30.926	16.124
6/15/2017 9:38	4590.001	76.5	1.447	3.34	6.588	30.922	16.08
6/15/2017 9:39	4620.001	77	1.437	3.319	6.567	30.943	16.06
6/15/2017 9:39	4650.001	77.5	1.431	3.304	6.552	30.958	16.097
6/15/2017 9:40	4680.001	78	1.426	3.292	6.54	30.97	16.046
6/15/2017 9:40	4710.001	78.5	1.423	3.287	6.535	30.975	16.061
6/15/2017 9:41	4740.001	79	1.414	3.265	6.513	30.997	16.041
6/15/2017 9:41	4770.001	79.5	1.414	3.264	6.512	30.998	16.013
6/15/2017 9:42	4800.001	80	1.406	3.247	6.495	31.015	16.004

6/15/2017 9:42	4830.001	80.5	1.408	3.251	6.499	31.011	16.054
6/15/2017 9:43	4860.001	81	1.403	3.24	6.488	31.022	15.981
6/15/2017 9:43	4890.001	81.5	1.393	3.216	6.464	31.046	15.989
6/15/2017 9:44	4920.001	82	1.393	3.217	6.465	31.045	16.006
6/15/2017 9:44	4950.001	82.5	1.38	3.186	6.434	31.076	15.975
6/15/2017 9:45	4980.001	83	1.381	3.188	6.436	31.074	16.023
6/15/2017 9:45	5010.001	83.5	1.379	3.185	6.433	31.077	15.991
6/15/2017 9:46	5040.001	84	1.373	3.17	6.418	31.092	15.983
6/15/2017 9:46	5070.001	84.5	1.369	3.162	6.41	31.1	15.991
6/15/2017 9:47	5100.001	85	1.368	3.158	6.406	31.104	15.955
6/15/2017 9:47	5130.001	85.5	1.363	3.146	6.394	31.116	15.983
6/15/2017 9:48	5160.001	86	1.355	3.13	6.378	31.132	16.007
6/15/2017 9:48	5190.001	86.5	1.35	3.117	6.365	31.145	15.987
6/15/2017 9:49	5220.001	87	1.342	3.099	6.347	31.163	15.984
6/15/2017 9:49	5250.001	87.5	1.341	3.097	6.345	31.165	15.986
6/15/2017 9:50	5280.001	88	1.336	3.085	6.333	31.177	15.963
6/15/2017 9:50	5310.001	88.5	1.332	3.076	6.324	31.186	15.951
6/15/2017 9:51	5340.001	89	1.33	3.072	6.32	31.19	16.01
6/15/2017 9:51	5370.001	89.5	1.318	3.043	6.291	31.219	15.991
6/15/2017 9:52	5400.001	90	1.314	3.033	6.281	31.229	15.991
6/15/2017 9:52	5430.001	90.5	1.316	3.039	6.287	31.223	15.978
6/15/2017 9:53	5460.001	91	1.306	3.016	6.264	31.246	15.997
6/15/2017 9:53	5490.001	91.5	1.303	3.008	6.256	31.254	16.01
6/15/2017 9:54	5520.001	92	1.304	3.011	6.259	31.251	15.977
6/15/2017 9:54	5550.001	92.5	1.296	2.992	6.24	31.27	15.962
6/15/2017 9:55	5580.001	93	1.291	2.981	6.229	31.281	15.991
6/15/2017 9:55	5610.001	93.5	1.289	2.975	6.223	31.287	16.018
6/15/2017 9:56	5640.001	94	1.284	2.964	6.212	31.298	15.932
6/15/2017 9:56	5670.001	94.5	1.278	2.952	6.2	31.31	15.983
6/15/2017 9:57	5700.001	95	1.271	2.934	6.182	31.328	15.967
6/15/2017 9:57	5730.001	95.5	1.268	2.928	6.176	31.334	15.97
6/15/2017 9:58	5760.001	96	1.263	2.916	6.164	31.346	15.998
6/15/2017 9:58	5790.001	96.5	1.262	2.913	6.161	31.349	15.96
6/15/2017 9:59	5820.001	97	1.257	2.902	6.15	31.36	15.994
6/15/2017 9:59	5850.001	97.5	1.252	2.891	6.139	31.371	16.007
6/15/2017 10:00	5880.001	98	1.245	2.875	6.123	31.387	15.951
6/15/2017 10:00	5910.001	98.5	1.244	2.872	6.12	31.39	15.97
6/15/2017 10:01	5940.001	99	1.233	2.846	6.094	31.416	15.982
6/15/2017 10:01	5970.001	99.5	1.235	2.853	6.101	31.409	16.007
6/15/2017 10:02	6000.001	100	1.228	2.834	6.082	31.428	15.983
6/15/2017 10:02	6030.001	100.5	1.226	2.83	6.078	31.432	16.004
6/15/2017 10:03	6060.001	101	1.224	2.827	6.075	31.435	15.971
6/15/2017 10:03	6090.001	101.5	1.213	2.802	6.05	31.46	16.009
6/15/2017 10:04	6120.001	102	1.216	2.807	6.055	31.455	15.996
6/15/2017 10:04	6150.001	102.5	1.211	2.797	6.045	31.465	15.989
6/15/2017 10:05	6180.001	103	1.202	2.775	6.023	31.487	15.997
6/15/2017 10:05	6210.001	103.5	1.2	2.771	6.019	31.491	16.007

6/15/2017 10:06	6240.001	104	1.198	2.767	6.015	31.495	15.991
6/15/2017 10:06	6270.001	104.5	1.197	2.763	6.011	31.499	16.013
6/15/2017 10:07	6300.001	105	1.19	2.747	5.995	31.515	16.01
6/15/2017 10:07	6330.001	105.5	1.188	2.744	5.992	31.518	15.991
6/15/2017 10:08	6360.001	106	1.182	2.728	5.976	31.534	15.991
6/15/2017 10:08	6390.001	106.5	1.179	2.721	5.969	31.541	16.015
6/15/2017 10:09	6420.001	107	1.17	2.702	5.95	31.56	15.943
6/15/2017 10:09	6450.001	107.5	1.169	2.699	5.947	31.563	16.016
6/15/2017 10:10	6480.001	108	1.164	2.687	5.935	31.575	15.981
6/15/2017 10:10	6510.001	108.5	1.156	2.67	5.918	31.592	15.974
6/15/2017 10:11	6540.001	109	1.155	2.667	5.915	31.595	15.998
6/15/2017 10:11	6570.001	109.5	1.149	2.654	5.902	31.608	15.991
6/15/2017 10:12	6600.035	110	1.144	2.64	5.888	31.622	15.994
6/15/2017 10:12	6630.079	110.5	1.14	2.632	5.88	31.63	15.991
6/15/2017 10:13	6660.107	111	1.135	2.62	5.868	31.642	16.008
6/15/2017 10:13	6690.001	111.5	1.127	2.602	5.85	31.66	15.997
6/15/2017 10:14	6720.006	112	1.127	2.601	5.849	31.661	15.964
6/15/2017 10:14	6750.049	112.5	1.116	2.577	5.825	31.685	15.962
6/15/2017 10:15	6780.093	113	1.114	2.572	5.82	31.69	15.994
6/15/2017 10:15	6810.001	113.5	1.107	2.555	5.803	31.707	15.997
6/15/2017 10:16	6840.006	114	1.108	2.558	5.806	31.704	15.997
6/15/2017 10:16	6870.049	114.5	1.1	2.539	5.787	31.723	15.978
6/15/2017 10:17	6900.001	115	1.099	2.538	5.786	31.724	15.934
6/15/2017 10:17	6930.001	115.5	1.095	2.528	5.776	31.734	15.934
6/15/2017 10:18	6960.001	116	1.091	2.518	5.766	31.744	16.001
6/15/2017 10:18	6990.001	116.5	1.082	2.499	5.747	31.763	16.013
6/15/2017 10:19	7020.001	117	1.077	2.487	5.735	31.775	15.936
6/15/2017 10:19	7050.001	117.5	1.062	2.453	5.701	31.809	15.945
6/15/2017 10:20	7080.001	118	1.063	2.454	5.702	31.808	15.943
6/15/2017 10:20	7110.001	118.5	1.054	2.433	5.681	31.829	15.965
6/15/2017 10:21	7140.001	119	1.051	2.427	5.675	31.835	15.93
6/15/2017 10:21	7170.001	119.5	1.051	2.427	5.675	31.835	15.951
6/15/2017 10:22	7200.001	120	1.045	2.414	5.662	31.848	15.975
6/15/2017 10:22	7230.001	120.5	1.039	2.398	5.646	31.864	15.948
6/15/2017 10:23	7260.001	121	1.028	2.374	5.622	31.888	15.977
6/15/2017 10:23	7290.001	121.5	1.031	2.38	5.628	31.882	15.95
6/15/2017 10:24	7320.001	122	1.025	2.367	5.615	31.895	15.955
6/15/2017 10:24	7350.001	122.5	1.018	2.351	5.599	31.911	15.971
6/15/2017 10:25	7380.001	123	1.015	2.344	5.592	31.918	15.911
6/15/2017 10:25	7410.001	123.5	1.012	2.336	5.584	31.926	15.961
6/15/2017 10:26	7440.001	124	1.004	2.319	5.567	31.943	15.984
6/15/2017 10:26	7470.001	124.5	0.994	2.295	5.543	31.967	15.947
6/15/2017 10:27	7500.001	125	0.993	2.294	5.542	31.968	15.966
6/15/2017 10:27	7530.001	125.5	0.988	2.282	5.53	31.98	15.985
6/15/2017 10:28	7560.001	126	0.981	2.265	5.513	31.997	15.951
6/15/2017 10:28	7590.001	126.5	0.978	2.257	5.505	32.005	15.972
6/15/2017 10:29	7620.001	127	0.973	2.247	5.495	32.015	15.973

6/15/2017 10:29	7650.001	127.5	0.969	2.238	5.486	32.024	15.957
6/15/2017 10:30	7680.001	128	0.958	2.213	5.461	32.049	15.938
6/15/2017 10:30	7710.001	128.5	0.953	2.2	5.448	32.062	15.95
6/15/2017 10:31	7740.001	129	0.947	2.187	5.435	32.075	15.965
6/15/2017 10:31	7770.001	129.5	0.949	2.19	5.438	32.072	15.957
6/15/2017 10:32	7800.001	130	0.942	2.174	5.422	32.088	15.954
6/15/2017 10:32	7830.001	130.5	0.933	2.154	5.402	32.108	16.007
6/15/2017 10:33	7860.001	131	0.928	2.144	5.392	32.118	15.914
6/15/2017 10:33	7890.001	131.5	0.923	2.131	5.379	32.131	15.964
6/15/2017 10:34	7920.001	132	0.921	2.126	5.374	32.136	15.934
6/15/2017 10:34	7950.001	132.5	0.915	2.112	5.36	32.15	15.923
6/15/2017 10:35	7980.001	133	0.908	2.098	5.346	32.164	15.994
6/15/2017 10:35	8010.001	133.5	0.905	2.089	5.337	32.173	15.938
6/15/2017 10:36	8040.001	134	0.896	2.069	5.317	32.193	15.924
6/15/2017 10:36	8070.001	134.5	0.892	2.06	5.308	32.202	15.957
6/15/2017 10:37	8100.001	135	0.885	2.043	5.291	32.219	15.993
6/15/2017 10:37	8130.001	135.5	0.884	2.042	5.29	32.22	15.948
6/15/2017 10:38	8160.001	136	0.878	2.028	5.276	32.234	15.973
6/15/2017 10:38	8190.001	136.5	0.874	2.018	5.266	32.244	15.954
6/15/2017 10:39	8220.014	137	0.866	1.999	5.247	32.263	15.919
6/15/2017 10:39	8250.001	137.5	0.865	1.997	5.245	32.265	15.934
6/15/2017 10:40	8280.001	138	0.854	1.973	5.221	32.289	15.979
6/15/2017 10:40	8310.001	138.5	0.853	1.969	5.217	32.293	15.948
6/15/2017 10:41	8340.001	139	0.843	1.946	5.194	32.316	16
6/15/2017 10:41	8370.001	139.5	0.837	1.932	5.18	32.33	15.965
6/15/2017 10:42	8400.001	140	0.835	1.927	5.175	32.335	15.959
6/15/2017 10:42	8430.001	140.5	0.827	1.91	5.158	32.352	15.948
6/15/2017 10:43	8460.001	141	0.822	1.898	5.146	32.364	15.948
6/15/2017 10:43	8490.001	141.5	0.816	1.885	5.133	32.377	15.962
6/15/2017 10:44	8520.001	142	0.81	1.871	5.119	32.391	15.987
6/15/2017 10:44	8550.001	142.5	0.809	1.867	5.115	32.395	15.966
6/15/2017 10:45	8580.001	143	0.802	1.851	5.099	32.411	15.941
6/15/2017 10:45	8610.001	143.5	0.793	1.832	5.08	32.43	15.973
6/15/2017 10:46	8640.001	144	0.795	1.835	5.083	32.427	15.957
6/15/2017 10:46	8670.001	144.5	0.782	1.805	5.053	32.457	15.97
6/15/2017 10:47	8700.001	145	0.784	1.811	5.059	32.451	15.967
6/15/2017 10:47	8730.001	145.5	0.774	1.787	5.035	32.475	16.011
6/15/2017 10:48	8760.001	146	0.766	1.769	5.017	32.493	15.992
6/15/2017 10:48	8790.001	146.5	0.764	1.765	5.013	32.497	15.995
6/15/2017 10:49	8820.001	147	0.758	1.749	4.997	32.513	15.984
6/15/2017 10:49	8850.001	147.5	0.753	1.739	4.987	32.523	15.977
6/15/2017 10:50	8880.001	148	0.752	1.737	4.985	32.525	15.991
6/15/2017 10:50	8910.001	148.5	0.745	1.719	4.967	32.543	15.967
6/15/2017 10:51	8940.001	149	0.739	1.706	4.954	32.556	15.98
6/15/2017 10:51	8970.001	149.5	0.732	1.69	4.938	32.572	15.981
6/15/2017 10:52	9000.001	150	0.728	1.682	4.93	32.58	16.005
6/15/2017 10:52	9030.001	150.5	0.72	1.662	4.91	32.6	16.012

6/15/2017 10:53	9060.001	151	0.718	1.657	4.905	32.605	15.979
6/15/2017 10:53	9090.001	151.5	0.711	1.641	4.889	32.621	15.999
6/15/2017 10:54	9120.001	152	0.707	1.632	4.88	32.63	15.983
6/15/2017 10:54	9150.001	152.5	0.695	1.605	4.853	32.657	15.988
6/15/2017 10:55	9180.001	153	0.696	1.606	4.854	32.656	15.986
6/15/2017 10:55	9210.001	153.5	0.692	1.598	4.846	32.664	16.01
6/15/2017 10:56	9240.001	154	0.689	1.591	4.839	32.671	16.004
6/15/2017 10:56	9270.001	154.5	0.682	1.575	4.823	32.687	15.978
6/15/2017 10:57	9300.001	155	0.673	1.554	4.802	32.708	16.01
6/15/2017 10:57	9330.001	155.5	0.664	1.533	4.781	32.729	16.001
6/15/2017 10:58	9360.001	156	0.662	1.529	4.777	32.733	16.029
6/15/2017 10:58	9390.001	156.5	0.657	1.516	4.764	32.746	16.005
6/15/2017 10:59	9420.001	157	0.652	1.505	4.753	32.757	16.039
6/15/2017 10:59	9450.001	157.5	0.646	1.492	4.74	32.77	16.034
6/15/2017 11:00	9480.001	158	0.641	1.48	4.728	32.782	16.006
6/15/2017 11:00	9510.001	158.5	0.633	1.463	4.711	32.799	16.031
6/15/2017 11:01	9540.001	159	0.631	1.456	4.704	32.806	16.048
6/15/2017 11:01	9570.001	159.5	0.628	1.449	4.697	32.813	16.064
6/15/2017 11:02	9600.001	160	0.623	1.437	4.685	32.825	16.047
6/15/2017 11:02	9630.001	160.5	0.62	1.43	4.678	32.832	16.072
6/15/2017 11:03	9660.001	161	0.606	1.4	4.648	32.862	16.071
6/15/2017 11:03	9690.001	161.5	0.602	1.389	4.637	32.873	16.048
6/15/2017 11:04	9720.001	162	0.59	1.361	4.609	32.901	16.039
6/15/2017 11:04	9750.001	162.5	0.593	1.37	4.618	32.892	16.065
6/15/2017 11:05	9780.001	163	0.595	1.373	4.621	32.889	16.016
6/15/2017 11:05	9810.001	163.5	0.585	1.352	4.6	32.91	16.042
6/15/2017 11:06	9840.001	164	0.582	1.343	4.591	32.919	16.054
6/15/2017 11:06	9870.001	164.5	0.577	1.333	4.581	32.929	16.064
6/15/2017 11:07	9900.001	165	0.575	1.327	4.575	32.935	16.03
6/15/2017 11:07	9930.001	165.5	0.57	1.316	4.564	32.946	16.033
6/15/2017 11:07	9960.001	166	0.563	1.301	4.549	32.961	16.028
6/15/2017 11:08	9990.001	166.5	0.561	1.295	4.543	32.967	16.025
6/15/2017 11:09	10020.001	167	0.555	1.283	4.531	32.979	16.015
6/15/2017 11:09	10050.001	167.5	0.552	1.275	4.523	32.987	16.032
6/15/2017 11:10	10080.001	168	0.548	1.266	4.514	32.996	16.034
6/15/2017 11:10	10110.001	168.5	0.542	1.251	4.499	33.011	16.022
6/15/2017 11:11	10140.001	169	0.536	1.237	4.485	33.025	16.039
6/15/2017 11:11	10170.001	169.5	0.533	1.23	4.478	33.032	16.032
6/15/2017 11:12	10200.001	170	0.526	1.215	4.463	33.047	16.023
6/15/2017 11:12	10230.001	170.5	0.521	1.204	4.452	33.058	16.018
6/15/2017 11:13	10260.001	171	0.516	1.191	4.439	33.071	16.012
6/15/2017 11:13	10290.001	171.5	0.511	1.181	4.429	33.081	16.015
6/15/2017 11:14	10320.001	172	0.508	1.173	4.421	33.089	16.036
6/15/2017 11:14	10350.001	172.5	0.504	1.163	4.411	33.099	16.029
6/15/2017 11:15	10380.001	173	0.495	1.144	4.392	33.118	15.971
6/15/2017 11:15	10410.001	173.5	0.489	1.13	4.378	33.132	16.002
6/15/2017 11:16	10440.001	174	0.485	1.12	4.368	33.142	16.005

6/15/2017 11:16	10470.001	174.5	0.478	1.104	4.352	33.158	15.991
6/15/2017 11:17	10500.001	175	0.47	1.086	4.334	33.176	15.975
6/15/2017 11:17	10530.001	175.5	0.468	1.081	4.329	33.181	15.97
6/15/2017 11:18	10560.001	176	0.46	1.061	4.309	33.201	15.973
6/15/2017 11:18	10590.001	176.5	0.456	1.053	4.301	33.209	15.976
6/15/2017 11:19	10620.001	177	0.452	1.044	4.292	33.218	15.97
6/15/2017 11:19	10650.001	177.5	0.447	1.032	4.28	33.23	15.954
6/15/2017 11:20	10680.001	178	0.438	1.012	4.26	33.25	15.971
6/15/2017 11:20	10710.001	178.5	0.436	1.008	4.256	33.254	15.95
6/15/2017 11:21	10740.001	179	0.43	0.993	4.241	33.269	15.954
6/15/2017 11:21	10770.001	179.5	0.426	0.984	4.232	33.278	15.924
6/15/2017 11:22	10800.001	180	0.42	0.969	4.217	33.293	15.936
6/15/2017 11:22	10830.001	180.5	0.415	0.957	4.205	33.305	15.948
6/15/2017 11:23	10860.001	181	0.409	0.945	4.193	33.317	15.956
6/15/2017 11:23	10890.001	181.5	0.404	0.932	4.18	33.33	15.95
6/15/2017 11:24	10920.001	182	0.398	0.919	4.167	33.343	15.93
6/15/2017 11:24	10950.001	182.5	0.394	0.91	4.158	33.352	15.954
6/15/2017 11:25	10980.001	183	0.389	0.899	4.147	33.363	15.946
6/15/2017 11:25	11010.001	183.5	0.381	0.879	4.127	33.383	15.964
6/15/2017 11:26	11040.001	184	0.377	0.87	4.118	33.392	15.952
6/15/2017 11:26	11070.001	184.5	0.372	0.858	4.106	33.404	15.949
6/15/2017 11:27	11100.001	185	0.365	0.843	4.091	33.419	15.933
6/15/2017 11:27	11130.001	185.5	0.359	0.829	4.077	33.433	15.934
6/15/2017 11:28	11160.001	186	0.354	0.817	4.065	33.445	15.946
6/15/2017 11:28	11190.001	186.5	0.35	0.809	4.057	33.453	15.938
6/15/2017 11:29	11220.001	187	0.347	0.8	4.048	33.462	15.91
6/15/2017 11:29	11250.001	187.5	0.338	0.781	4.029	33.481	15.952
6/15/2017 11:30	11280.001	188	0.334	0.771	4.019	33.491	15.931
6/15/2017 11:30	11310.001	188.5	0.331	0.763	4.011	33.499	15.939
6/15/2017 11:31	11340.001	189	0.326	0.754	4.002	33.508	15.887
6/15/2017 11:31	11370.001	189.5	0.323	0.746	3.994	33.516	15.922
6/15/2017 11:32	11400.001	190	0.319	0.736	3.984	33.526	15.903
6/15/2017 11:32	11430.001	190.5	0.312	0.721	3.969	33.541	15.9
6/15/2017 11:33	11460.001	191	0.312	0.719	3.967	33.543	15.888
6/15/2017 11:33	11490.001	191.5	0.306	0.708	3.956	33.554	15.904
6/15/2017 11:34	11520.001	192	0.301	0.694	3.942	33.568	15.896
6/15/2017 11:34	11550.001	192.5	0.298	0.688	3.936	33.574	15.873
6/15/2017 11:35	11580.001	193	0.293	0.677	3.925	33.585	15.914
6/15/2017 11:35	11610.001	193.5	0.29	0.67	3.918	33.592	15.876
6/15/2017 11:36	11640.001	194	0.286	0.661	3.909	33.601	15.903
6/15/2017 11:36	11670.001	194.5	0.28	0.647	3.895	33.615	15.881
6/15/2017 11:37	11700.001	195	0.277	0.641	3.889	33.621	15.893
6/15/2017 11:37	11730.001	195.5	0.272	0.629	3.877	33.633	15.906
6/15/2017 11:38	11760.001	196	0.269	0.62	3.868	33.642	15.914
6/15/2017 11:38	11790.001	196.5	0.263	0.608	3.856	33.654	15.929
6/15/2017 11:39	11820.001	197	0.261	0.602	3.85	33.66	15.919
6/15/2017 11:39	11850.001	197.5	0.256	0.592	3.84	33.67	15.927

6/15/2017 11:40	11880.001	198	0.25	0.578	3.826	33.684	15.892
6/15/2017 11:40	11910.001	198.5	0.25	0.577	3.825	33.685	15.914
6/15/2017 11:41	11940.001	199	0.25	0.578	3.826	33.684	15.857
6/15/2017 11:41	11970.001	199.5	0.249	0.575	3.823	33.687	15.868
6/15/2017 11:42	12000.001	200	0.249	0.574	3.822	33.688	15.854
6/15/2017 11:42	12030.001	200.5	0.25	0.578	3.826	33.684	15.799
6/15/2017 11:43	12060.001	201	0.252	0.582	3.83	33.68	15.826
6/15/2017 11:43	12090.001	201.5	0.25	0.577	3.825	33.685	15.793
6/15/2017 11:44	12120.001	202	0.249	0.575	3.823	33.687	15.793
6/15/2017 11:44	12150.001	202.5	0.247	0.57	3.818	33.692	15.798
6/15/2017 11:45	12180.001	203	0.249	0.576	3.824	33.686	15.77
6/15/2017 11:45	12210.001	203.5	0.249	0.575	3.823	33.687	15.767
6/15/2017 11:46	12240.001	204	0.25	0.577	3.825	33.685	15.757
6/15/2017 11:46	12270.001	204.5	0.25	0.577	3.825	33.685	15.745
6/15/2017 11:47	12300.001	205	0.253	0.584	3.832	33.678	15.744
6/15/2017 11:47	12330.001	205.5	0.25	0.576	3.824	33.686	15.776
6/15/2017 11:48	12360.001	206	0.247	0.571	3.819	33.691	15.731
6/15/2017 11:48	12390.001	206.5	0.247	0.57	3.818	33.692	15.745
6/15/2017 11:49	12420.001	207	0.249	0.575	3.823	33.687	15.728
6/15/2017 11:49	12450.001	207.5	0.249	0.575	3.823	33.687	15.727
6/15/2017 11:50	12480.001	208	0.249	0.574	3.822	33.688	15.712
6/15/2017 11:50	12510.001	208.5	0.248	0.573	3.821	33.689	15.716
6/15/2017 11:51	12540.001	209	0.249	0.576	3.824	33.686	15.723
6/15/2017 11:51	12570.001	209.5	0.247	0.57	3.818	33.692	15.72
6/15/2017 11:52	12600.001	210	0.25	0.576	3.824	33.686	15.736
6/15/2017 11:52	12630.001	210.5	0.251	0.579	3.827	33.683	15.696
6/15/2017 11:53	12660.001	211	0.252	0.581	3.829	33.681	15.692
6/15/2017 11:53	12690.001	211.5	0.248	0.573	3.821	33.689	15.711
6/15/2017 11:54	12720.001	212	0.249	0.576	3.824	33.686	15.72
6/15/2017 11:54	12750.001	212.5	0.25	0.577	3.825	33.685	15.681
6/15/2017 11:55	12780.001	213	0.248	0.572	3.82	33.69	15.707
6/15/2017 11:55	12810.001	213.5	0.249	0.575	3.823	33.687	15.704
6/15/2017 11:56	12840.001	214	0.245	0.565	3.813	33.697	15.678
6/15/2017 11:56	12870.001	214.5	0.25	0.576	3.824	33.686	15.646
6/15/2017 11:57	12900.001	215	0.25	0.577	3.825	33.685	15.667
6/15/2017 11:57	12930.001	215.5	0.249	0.574	3.822	33.688	15.694
6/15/2017 11:58	12960.001	216	0.25	0.578	3.826	33.684	15.691
6/15/2017 11:58	12990.001	216.5	0.251	0.579	3.827	33.683	15.68
6/15/2017 11:59	13020.001	217	0.249	0.576	3.824	33.686	15.691
6/15/2017 11:59	13050.001	217.5	0.247	0.571	3.819	33.691	15.672
6/15/2017 12:00	13080.001	218	0.248	0.572	3.82	33.69	15.65
6/15/2017 12:00	13110.001	218.5	0.248	0.573	3.821	33.689	15.671
6/15/2017 12:01	13140.001	219	0.251	0.58	3.828	33.682	15.653
6/15/2017 12:01	13170.001	219.5	0.253	0.583	3.831	33.679	15.651
6/15/2017 12:02	13200.001	220	0.246	0.567	3.815	33.695	15.634
6/15/2017 12:02	13230.001	220.5	0.251	0.58	3.828	33.682	15.656
6/15/2017 12:03	13260.001	221	0.249	0.574	3.822	33.688	15.679

6/15/2017 12:03	13290.001	221.5	0.248	0.573	3.821	33.689	15.671
6/15/2017 12:04	13320.001	222	0.249	0.574	3.822	33.688	15.681
6/15/2017 12:04	13350.001	222.5	0.254	0.586	3.834	33.676	15.654
6/15/2017 12:05	13380.001	223	0.251	0.579	3.827	33.683	15.657
6/15/2017 12:05	13410.001	223.5	0.249	0.574	3.822	33.688	15.643
6/15/2017 12:06	13440.001	224	0.249	0.574	3.822	33.688	15.657
6/15/2017 12:06	13470.001	224.5	0.248	0.573	3.821	33.689	15.614
6/15/2017 12:07	13500.001	225	0.249	0.575	3.823	33.687	15.644
6/15/2017 12:07	13530.001	225.5	0.247	0.571	3.819	33.691	15.665
6/15/2017 12:08	13560.001	226	0.252	0.582	3.83	33.68	15.651
6/15/2017 12:08	13590.001	226.5	0.249	0.575	3.823	33.687	15.653
6/15/2017 12:09	13620.001	227	0.244	0.562	3.81	33.7	15.646
6/15/2017 12:09	13650.001	227.5	0.249	0.574	3.822	33.688	15.652
6/15/2017 12:10	13680.001	228	0.25	0.576	3.824	33.686	15.653
6/15/2017 12:10	13710.04	228.5	0.246	0.568	3.816	33.694	15.642
6/15/2017 12:11	13740.083	229	0.251	0.579	3.827	33.683	15.637
6/15/2017 12:11	13770.001	229.5	0.252	0.583	3.831	33.679	15.626
6/15/2017 12:12	13800.001	230	0.251	0.58	3.828	33.682	15.612
6/15/2017 12:12	13830.025	230.5	0.247	0.57	3.818	33.692	15.643
6/15/2017 12:13	13860.069	231	0.25	0.576	3.824	33.686	15.637
6/15/2017 12:13	13890.097	231.5	0.248	0.572	3.82	33.69	15.637
6/15/2017 12:14	13920.001	232	0.25	0.576	3.824	33.686	15.621
6/15/2017 12:14	13950.011	232.5	0.247	0.57	3.818	33.692	15.621
6/15/2017 12:15	13980.054	233	0.248	0.573	3.821	33.689	15.567
6/15/2017 12:15	14010.098	233.5	0.252	0.581	3.829	33.681	15.618
6/15/2017 12:16	14040.001	234	0.249	0.574	3.822	33.688	15.594
6/15/2017 12:16	14070.001	234.5	0.245	0.567	3.815	33.695	15.62
6/15/2017 12:17	14100.001	235	0.252	0.581	3.829	33.681	15.621
6/15/2017 12:17	14130.001	235.5	0.251	0.579	3.827	33.683	15.637
6/15/2017 12:18	14160.001	236	0.25	0.578	3.826	33.684	15.594
6/15/2017 12:18	14190.001	236.5	0.25	0.577	3.825	33.685	15.616
6/15/2017 12:19	14220.001	237	0.249	0.576	3.824	33.686	15.618
6/15/2017 12:19	14250.001	237.5	0.248	0.572	3.82	33.69	15.605
6/15/2017 12:20	14280.001	238	0.252	0.581	3.829	33.681	15.601
6/15/2017 12:20	14310.001	238.5	0.248	0.573	3.821	33.689	15.641
6/15/2017 12:21	14340.001	239	0.253	0.584	3.832	33.678	15.629
6/15/2017 12:21	14370.001	239.5	0.249	0.575	3.823	33.687	15.668
6/15/2017 12:22	14400.001	240	0.249	0.576	3.824	33.686	15.65
6/15/2017 12:22	14430.001	240.5	0.248	0.573	3.821	33.689	15.647
6/15/2017 12:23	14460.001	241	0.25	0.577	3.825	33.685	15.653
6/15/2017 12:23	14490.001	241.5	0.252	0.582	3.83	33.68	15.619
6/15/2017 12:24	14520.001	242	0.248	0.573	3.821	33.689	15.676
6/15/2017 12:24	14550.001	242.5	0.247	0.569	3.817	33.693	15.63
6/15/2017 12:25	14580.001	243	0.251	0.579	3.827	33.683	15.653
6/15/2017 12:25	14610.001	243.5	0.25	0.577	3.825	33.685	15.643
6/15/2017 12:26	14640.001	244	0.246	0.569	3.817	33.693	15.643
6/15/2017 12:26	14670.001	244.5	0.251	0.58	3.828	33.682	15.597

6/15/2017 12:27	14700.001	245	0.251	0.58	3.828	33.682	15.594
6/15/2017 12:27	14730.001	245.5	0.248	0.573	3.821	33.689	15.63
6/15/2017 12:28	14760.001	246	0.25	0.577	3.825	33.685	15.637
6/15/2017 12:28	14790.001	246.5	0.249	0.574	3.822	33.688	15.605
6/15/2017 12:29	14820.001	247	0.247	0.571	3.819	33.691	15.633
6/15/2017 12:29	14850.001	247.5	0.249	0.576	3.824	33.686	15.626
6/15/2017 12:30	14880.001	248	0.25	0.578	3.826	33.684	15.599
6/15/2017 12:30	14910.001	248.5	0.252	0.581	3.829	33.681	15.613
6/15/2017 12:31	14940.001	249	0.249	0.575	3.823	33.687	15.648
6/15/2017 12:31	14970.001	249.5	0.251	0.579	3.827	33.683	15.656
6/15/2017 12:32	15000.001	250	0.247	0.569	3.817	33.693	15.586
6/15/2017 12:32	15030.001	250.5	0.252	0.581	3.829	33.681	15.597
6/15/2017 12:33	15060.001	251	0.247	0.57	3.818	33.692	15.607
6/15/2017 12:33	15090.001	251.5	0.248	0.573	3.821	33.689	15.637
6/15/2017 12:34	15120.001	252	0.252	0.581	3.829	33.681	15.661
6/15/2017 12:34	15150.001	252.5	0.247	0.571	3.819	33.691	15.621
6/15/2017 12:35	15180.001	253	0.248	0.573	3.821	33.689	15.6
6/15/2017 12:35	15210.001	253.5	0.248	0.573	3.821	33.689	15.644
6/15/2017 12:36	15240.001	254	0.253	0.584	3.832	33.678	15.645
6/15/2017 12:36	15270.001	254.5	0.248	0.572	3.82	33.69	15.605
6/15/2017 12:37	15300.001	255	0.252	0.582	3.83	33.68	15.614
6/15/2017 12:37	15330.001	255.5	0.25	0.578	3.826	33.68	15.618
6/15/2017 12:38	15360.001	256	0.25	0.578	3.824	33.684	15.601
6/15/2017 12:38	15390.001	256.5	0.25	0.576	3.824	33.686	15.626
6/15/2017 12:39	15420.001	257	0.25	0.578	3.826	33.684	15.611
6/15/2017 12:39	15450.001	257.5	0.252	0.582	3.83	33.68	15.624
6/15/2017 12:40	15480.001	258	0.252	0.581	3.829	33.681	15.592
6/15/2017 12:40	15510.001	258.5	0.25	0.576	3.824	33.686	15.602
6/15/2017 12:41	15540.001	259	0.248	0.574	3.822	33.688	15.64
6/15/2017 12:41	15570.001	259.5	0.252	0.581	3.829	33.681	15.659
6/15/2017 12:42	15600.001	260	0.25	0.577	3.825	33.685	15.621
6/15/2017 12:42	15630.001	260.5	0.251	0.579	3.827	33.683	15.616
6/15/2017 12:43	15660.001	261	0.249	0.575	3.823	33.687	15.626
6/15/2017 12:43	15690.001	261.5	0.252	0.583	3.831	33.679	15.636
6/15/2017 12:44	15720.001	262	0.248	0.573	3.821	33.689	15.641
6/15/2017 12:44	15750.001	262.5	0.249	0.575	3.823	33.687	15.621
6/15/2017 12:45	15780.001	263	0.251	0.579	3.827	33.683	15.609
6/15/2017 12:45	15810.001	263.5	0.25	0.578	3.826	33.684	15.61
6/15/2017 12:46	15840.001	264	0.249	0.575	3.823	33.687	15.609
6/15/2017 12:46	15870.001	264.5	0.236	0.545	3.793	33.717	15.597
6/15/2017 12:47	15900.001	265	0.248	0.573	3.821	33.689	15.616
6/15/2017 12:47	15930.001	265.5	0.252	0.581	3.829	33.681	15.624
6/15/2017 12:48	15960.001	266	0.248	0.574	3.822	33.688	15.592
6/15/2017 12:48	15990.001	266.5	0.25	0.578	3.826	33.684	15.63
6/15/2017 12:49	16020.001	267	0.25	0.577	3.825	33.685	15.59
6/15/2017 12:49	16050.001	267.5	0.25	0.578	3.826	33.684	15.61
6/15/2017 12:50	16080.001	268	0.25	0.577	3.825	33.685	15.605

6/15/2017 12:50	16110.001	268.5	0.251	0.579	3.827	33.683	15.605
6/15/2017 12:51	16140.001	269	0.246	0.569	3.817	33.693	15.618
6/15/2017 12:51	16170.001	269.5	0.248	0.573	3.821	33.689	15.594
6/15/2017 12:52	16200.001	270	0.248	0.573	3.821	33.689	15.594
6/15/2017 12:52	16230.001	270.5	0.25	0.578	3.826	33.684	15.579
6/15/2017 12:53	16260.001	271	0.25	0.576	3.824	33.686	15.607
6/15/2017 12:53	16290.001	271.5	0.252	0.582	3.83	33.68	15.616
6/15/2017 12:54	16320.001	272	0.249	0.575	3.823	33.687	15.61
6/15/2017 12:54	16350.001	272.5	0.247	0.571	3.819	33.691	15.585
6/15/2017 12:55	16380.001	273	0.246	0.567	3.815	33.695	15.597
6/15/2017 12:55	16410.001	273.5	0.249	0.576	3.824	33.686	15.581
6/15/2017 12:56	16440.001	274	0.25	0.578	3.826	33.684	15.632
6/15/2017 12:56	16470.001	274.5	0.248	0.574	3.822	33.688	15.6
6/15/2017 12:57	16500.001	275	0.249	0.574	3.822	33.688	15.592
6/15/2017 12:57	16530.001	275.5	0.248	0.573	3.821	33.689	15.581
6/15/2017 12:58	16560.001	276	0.25	0.577	3.825	33.685	15.605
6/15/2017 12:58	16590.001	276.5	0.249	0.574	3.822	33.688	15.6
6/15/2017 12:59	16620.001	277	0.248	0.572	3.82	33.69	15.592
6/15/2017 12:59	16650.001	277.5	0.249	0.576	3.824	33.686	15.586
6/15/2017 13:00	16680.001	278	0.25	0.578	3.826	33.684	15.612
6/15/2017 13:00	16710.001	278.5	0.25	0.578	3.826	33.684	15.608
6/15/2017 13:01	16740.001	279	0.249	0.576	3.824	33.686	15.603
6/15/2017 13:01	16770.001	279.5	0.247	0.57	3.818	33.692	15.589
6/15/2017 13:02	16800.001	280	0.248	0.573	3.821	33.689	15.569
6/15/2017 13:02	16830.001	280.5	0.25	0.577	3.825	33.685	15.578
6/15/2017 13:03	16860.001	281	0.249	0.575	3.823	33.687	15.6
6/15/2017 13:03	16890.001	281.5	0.25	0.578	3.826	33.684	15.598
6/15/2017 13:04	16920.001	282	0.25	0.577	3.825	33.685	15.565
6/15/2017 13:04	16950.001	282.5	0.252	0.581	3.829	33.681	15.595
6/15/2017 13:05	16980.001	283	0.301	0.696	3.944	33.566	15.612
6/15/2017 13:05	17010.001	283.5	0.416	0.96	4.208	33.302	15.565
6/15/2017 13:06	17040.001	284	0.526	1.213	4.461	33.049	15.526
6/15/2017 13:06	17070.001	284.5	0.625	1.443	4.691	32.819	15.493
6/15/2017 13:07	17100.001	285	0.517	1.194	4.442	33.068	15.406
6/15/2017 13:07	17130.001	285.5	0.609	1.407	4.655	32.855	15.336
6/15/2017 13:08	17160.001	286	0.625	1.444	4.692	32.818	15.263
6/15/2017 13:08	17190.001	286.5	0.808	1.865	5.113	32.397	15.192
6/15/2017 13:09	17220.001	287	0.899	2.075	5.323	32.187	15.116
6/15/2017 13:09	17250.001	287.5	0.986	2.277	5.525	31.985	15.057
6/15/2017 13:10	17280.001	288	1.081	2.497	5.745	31.765	15.01
6/15/2017 13:10	17310.001	288.5	1.174	2.71	5.958	31.552	14.991
6/15/2017 13:11	17340.001	289	1.263	2.917	6.165	31.345	14.95
6/15/2017 13:11	17370.001	289.5	1.351	3.119	6.367	31.143	14.924
6/15/2017 13:12	17400.001	290	1.431	3.305	6.553	30.957	14.931
6/15/2017 13:12	17430.001	290.5	1.515	3.498	6.746	30.764	14.909
6/15/2017 13:13	17460.001	291	1.599	3.691	6.939	30.571	14.905
6/15/2017 13:13	17490.001	291.5	1.684	3.889	7.137	30.373	14.948

6/15/2017 13:14	17520.001	292	1.767	4.081	7.329	30.181	14.881
6/15/2017 13:14	17550.001	292.5	1.856	4.286	7.534	29.976	14.871
6/15/2017 13:15	17580.001	293	1.938	4.475	7.723	29.787	14.843
6/15/2017 13:15	17610.001	293.5	2.02	4.664	7.912	29.598	14.784
6/15/2017 13:16	17640.001	294	2.105	4.861	8.109	29.401	14.794
6/15/2017 13:16	17670.001	294.5	2.19	5.058	8.306	29.204	14.806
6/15/2017 13:17	17700.001	295	2.272	5.245	8.493	29.017	14.79
6/15/2017 13:17	17730.001	295.5	2.349	5.424	8.672	28.838	14.746
6/15/2017 13:18	17760.001	296	2.432	5.615	8.863	28.647	14.784
6/15/2017 13:18	17790.001	296.5	2.504	5.781	9.029	28.481	14.749
6/15/2017 13:19	17820.001	297	2.577	5.949	9.197	28.313	14.767
6/15/2017 13:19	17850.001	297.5	2.647	6.112	9.36	28.15	14.75
6/15/2017 13:20	17880.001	298	2.718	6.275	9.523	27.987	14.735
6/15/2017 13:20	17910.001	298.5	2.793	6.45	9.698	27.812	14.718
6/15/2017 13:21	17940.001	299	2.865	6.616	9.864	27.646	14.671
6/15/2017 13:21	17970.001	299.5	2.936	6.78	10.028	27.482	14.676
6/15/2017 13:22	18000.001	300	3.004	6.937	10.185	27.325	14.647
6/15/2017 13:22	18030.001	300.5	3.066	7.08	10.328	27.182	14.686
6/15/2017 13:23	18060.001	301	3.129	7.226	10.474	27.036	14.658
6/15/2017 13:23	18090.001	301.5	3.184	7.352	10.6	26.91	14.678
6/15/2017 13:24	18120.001	302	3.241	7.484	10.732	26.778	14.672
6/15/2017 13:24	18150.001	302.5	3.294	7.605	10.853	26.657	14.668
6/15/2017 13:25	18180.001	303	3.342	7.717	10.965	26.545	14.662
6/15/2017 13:25	18210.001	303.5	3.391	7.829	11.077	26.433	14.627
6/15/2017 13:26	18240.001	304	3.442	7.947	11.195	26.315	14.635
6/15/2017 13:26	18270.001	304.5	3.492	8.062	11.31	26.2	14.656
6/15/2017 13:27	18300.001	305	3.544	8.184	11.432	26.078	14.658
6/15/2017 13:27	18330.001	305.5	3.596	8.302	11.55	25.96	14.66
6/15/2017 13:28	18360.001	306	3.648	8.423	11.671	25.839	14.607
6/15/2017 13:28	18390.001	306.5	3.698	8.539	11.787	25.723	14.663
6/15/2017 13:29	18420.001	307	3.743	8.643	11.891	25.619	14.602
6/15/2017 13:29	18450.001	307.5	3.785	8.74	11.988	25.522	14.594
6/15/2017 13:30	18480.001	308	3.827	8.836	12.084	25.426	14.597
6/15/2017 13:30	18510.001	308.5	3.868	8.931	12.179	25.331	14.596
6/15/2017 13:31	18540.001	309	3.904	9.015	12.263	25.247	14.578
6/15/2017 13:31	18570.001	309.5	3.937	9.091	12.339	25.171	14.562
6/15/2017 13:32	18600.001	310	3.969	9.165	12.413	25.097	14.587
6/15/2017 13:32	18630.001	310.5	4.001	9.238	12.486	25.024	14.599
6/15/2017 13:33	18660.001	311	4.035	9.316	12.564	24.946	14.586
6/15/2017 13:33	18690.001	311.5	4.064	9.383	12.631	24.879	14.599
6/15/2017 13:34	18720.001	312	4.092	9.449	12.697	24.813	14.581
6/15/2017 13:34	18750.001	312.5	4.124	9.522	12.77	24.74	14.563
6/15/2017 13:35	18780.001	313	4.152	9.587	12.835	24.675	14.553
6/15/2017 13:35	18810.001	313.5	4.179	9.649	12.897	24.613	14.524
6/15/2017 13:36	18840.001	314	4.207	9.715	12.963	24.547	14.52
6/15/2017 13:36	18870.001	314.5	4.238	9.785	13.033	24.477	14.549
6/15/2017 13:37	18900.001	315	4.262	9.84	13.088	24.422	14.507

6/15/2017 13:37	18930.001	315.5	4.288	9.902	13.15	24.36	14.499
6/15/2017 13:38	18960.001	316	4.312	9.957	13.205	24.305	14.529
6/15/2017 13:38	18990.001	316.5	4.34	10.022	13.27	24.24	14.521
6/15/2017 13:39	19020.001	317	4.366	10.082	13.33	24.18	14.535
6/15/2017 13:39	19050.001	317.5	4.392	10.141	13.389	24.121	14.526
6/15/2017 13:40	19080.001	318	4.414	10.193	13.441	24.069	14.539
6/15/2017 13:40	19110.001	318.5	4.436	10.242	13.49	24.02	14.524
6/15/2017 13:41	19140.001	319	4.461	10.301	13.549	23.961	14.53
6/15/2017 13:41	19170.001	319.5	4.486	10.358	13.606	23.904	14.518
6/15/2017 13:42	19200.001	320	4.508	10.409	13.657	23.853	14.518
6/15/2017 13:42	19230.001	320.5	4.528	10.455	13.703	23.807	14.486
6/15/2017 13:43	19260.001	321	4.552	10.511	13.759	23.751	14.51
6/15/2017 13:43	19290.001	321.5	4.574	10.56	13.808	23.702	14.518
6/15/2017 13:43	19320.001	322	4.594	10.607	13.855	23.655	14.497
6/15/2017 13:44	19350.001	322.5	4.617	10.66	13.908	23.602	14.502
6/15/2017 13:44	19380.001	323	4.636	10.705	13.953	23.557	14.468
6/15/2017 13:45	19410.001	323.5	4.659	10.758	14.006	23.504	14.512
6/15/2017 13:45	19440.001	324	4.681	10.808	14.056	23.454	14.489
6/15/2017 13:46	19470.001	324.5	4.698	10.849	14.097	23.413	14.512
6/15/2017 13:46	19500.001	325	4.716	10.889	14.137	23.373	14.483
6/15/2017 13:47	19530.001	325.5	4.738	10.939	14.187	23.323	14.5
6/15/2017 13:48	19560.001	326	4.755	10.979	14.227	23.283	14.491
6/15/2017 13:48	19590.001	326.5	4.775	11.025	14.273	23.237	14.465
6/15/2017 13:49	19620.001	327	4.794	11.069	14.317	23.193	14.46
6/15/2017 13:49	19650.001	327.5	4.812	11.112	14.36	23.15	14.457
6/15/2017 13:50	19680.001	328	4.827	11.145	14.393	23.117	14.448
6/15/2017 13:50	19710.001	328.5	4.848	11.194	14.442	23.068	14.426
6/15/2017 13:51	19740.001	329	4.863	11.229	14.477	23.033	14.444
6/15/2017 13:51	19770.001	329.5	4.879	11.266	14.514	22.996	14.448
6/15/2017 13:52	19800.001	330	4.894	11.3	14.548	22.962	14.461
6/15/2017 13:52	19830.001	330.5	4.911	11.339	14.587	22.923	14.453
6/15/2017 13:53	19860.001	331	4.928	11.378	14.626	22.884	14.469
6/15/2017 13:53	19890.001	331.5	4.944	11.414	14.662	22.848	14.464
6/15/2017 13:54	19920.001	332	4.959	11.45	14.698	22.812	14.453
6/15/2017 13:54	19950.001	332.5	4.976	11.49	14.738	22.772	14.455
6/15/2017 13:55	19980.001	333	4.99	11.521	14.769	22.741	14.429
6/15/2017 13:55	20010.001	333.5	5.005	11.557	14.805	22.705	14.453
6/15/2017 13:56	20040.001	334	5.026	11.604	14.852	22.658	14.437
6/15/2017 13:56	20070.001	334.5	5.045	11.648	14.896	22.614	14.423
6/15/2017 13:57	20100.001	335	5.069	11.703	14.951	22.559	14.446
6/15/2017 13:57	20130.001	335.5	5.088	11.748	14.996	22.514	14.434
6/15/2017 13:58	20160.001	336	5.108	11.795	15.043	22.467	14.44
6/15/2017 13:58	20190.001	336.5	5.128	11.84	15.088	22.422	14.437
6/15/2017 13:59	20220.001	337	5.146	11.881	15.129	22.381	14.437
6/15/2017 13:59	20250.001	337.5	5.166	11.928	15.176	22.334	14.437
6/15/2017 14:00	20280.001	338	5.185	11.971	15.219	22.291	14.434
6/15/2017 14:00	20310.001	338.5	5.206	12.02	15.268	22.242	14.432

6/15/2017 14:01	20340.001	339	5.222	12.058	15.306	22.204	14.444
6/15/2017 14:01	20370.001	339.5	5.239	12.098	15.346	22.164	14.423
6/15/2017 14:02	20400.001	340	5.257	12.139	15.387	22.123	14.415
6/15/2017 14:02	20430.001	340.5	5.273	12.176	15.424	22.086	14.43
6/15/2017 14:03	20460.001	341	5.286	12.204	15.452	22.058	14.425
6/15/2017 14:03	20490.001	341.5	5.303	12.244	15.492	22.018	14.413
6/15/2017 14:04	20520.001	342	5.32	12.284	15.532	21.978	14.434
6/15/2017 14:04	20550.001	342.5	5.334	12.317	15.565	21.945	14.425
6/15/2017 14:05	20580.001	343	5.35	12.352	15.6	21.91	14.411
6/15/2017 14:05	20610.001	343.5	5.363	12.384	15.632	21.878	14.408
6/15/2017 14:06	20640.001	344	5.379	12.421	15.669	21.841	14.405
6/15/2017 14:06	20670.001	344.5	5.392	12.45	15.698	21.812	14.381
6/15/2017 14:07	20700.001	345	5.407	12.484	15.732	21.778	14.399
6/15/2017 14:07	20730.001	345.5	5.424	12.523	15.771	21.739	14.396
6/15/2017 14:08	20760.001	346	5.432	12.541	15.789	21.721	14.394
6/15/2017 14:08	20790.001	346.5	5.444	12.571	15.819	21.691	14.408
6/15/2017 14:09	20820.001	347	5.457	12.601	15.849	21.661	14.373
6/15/2017 14:09	20850.001	347.5	5.469	12.628	15.876	21.634	14.366
6/15/2017 14:10	20880.001	348	5.482	12.657	15.905	21.605	14.367
6/15/2017 14:10	20910.001	348.5	5.492	12.68	15.928	21.582	14.364
6/15/2017 14:11	20940.001	349	5.505	12.711	15.959	21.551	14.387
6/15/2017 14:11	20970.001	349.5	5.515	12.735	15.983	21.527	14.345
6/15/2017 14:12	21000.001	350	5.527	12.761	16.009	21.501	14.366
6/15/2017 14:12	21030.001	350.5	5.538	12.788	16.036	21.474	14.362
6/15/2017 14:13	21060.001	351	5.547	12.808	16.056	21.454	14.362
6/15/2017 14:13	21090.001	351.5	5.558	12.833	16.081	21.429	14.386
6/15/2017 14:14	21120.001	352	5.567	12.855	16.103	21.407	14.379
6/15/2017 14:14	21150.001	352.5	5.577	12.877	16.125	21.385	14.387
6/15/2017 14:15	21180.001	353	5.59	12.906	16.154	21.356	14.379
6/15/2017 14:15	21210.001	353.5	5.598	12.926	16.174	21.336	14.356
6/15/2017 14:16	21240.001	354	5.606	12.944	16.192	21.318	14.366
6/15/2017 14:16	21270.001	354.5	5.617	12.97	16.218	21.292	14.363
6/15/2017 14:17	21300.001	355	5.626	12.991	16.239	21.271	14.361
6/15/2017 14:17	21330.001	355.5	5.633	13.006	16.254	21.256	14.361
6/15/2017 14:18	21360.001	356	5.642	13.026	16.274	21.236	14.36
6/15/2017 14:18	21390.001	356.5	5.65	13.046	16.294	21.216	14.369
6/15/2017 14:19	21420.001	357	5.658	13.064	16.312	21.198	14.345
6/15/2017 14:19	21450.001	357.5	5.667	13.086	16.334	21.176	14.339
6/15/2017 14:20	21480.001	358	5.677	13.107	16.355	21.155	14.369
6/15/2017 14:20	21510.001	358.5	5.682	13.12	16.368	21.142	14.348
6/15/2017 14:21	21540.001	359	5.688	13.133	16.381	21.129	14.36
6/15/2017 14:21	21570.001	359.5	5.694	13.148	16.396	21.114	14.34
6/15/2017 14:22	21600.001	360	5.706	13.174	16.422	21.088	14.359
6/15/2017 14:22	21630.001	360.5	5.711	13.186	16.434	21.076	14.369
6/15/2017 14:23	21660.001	361	5.717	13.2	16.448	21.062	14.338
6/15/2017 14:23	21690.001	361.5	5.725	13.218	16.466	21.044	14.339
6/15/2017 14:24	21720.001	362	5.731	13.233	16.481	21.029	14.362

6/15/2017 14:24	21750.001	362.5	5.736	13.245	16.493	21.017	14.323
6/15/2017 14:25	21780.001	363	5.745	13.266	16.514	20.996	14.343
6/15/2017 14:25	21810.001	363.5	5.753	13.283	16.531	20.979	14.353
6/15/2017 14:26	21840.001	364	5.758	13.295	16.543	20.967	14.328
6/15/2017 14:26	21870.001	364.5	5.76	13.3	16.548	20.962	14.333
6/15/2017 14:27	21900.001	365	5.77	13.323	16.571	20.939	14.325
6/15/2017 14:27	21930.001	365.5	5.776	13.338	16.586	20.924	14.337
6/15/2017 14:28	21960.001	366	5.78	13.345	16.593	20.917	14.347
6/15/2017 14:28	21990.001	366.5	5.786	13.36	16.608	20.902	14.344
6/15/2017 14:29	22020.001	367	5.791	13.371	16.619	20.891	14.321
6/15/2017 14:29	22050.001	367.5	5.797	13.386	16.634	20.876	14.358
6/15/2017 14:30	22080.001	368	5.801	13.395	16.643	20.867	14.315
6/15/2017 14:30	22110.001	368.5	5.807	13.409	16.657	20.853	14.337
6/15/2017 14:31	22140.001	369	5.811	13.418	16.666	20.844	14.352
6/15/2017 14:31	22170.001	369.5	5.819	13.435	16.683	20.827	14.326
6/15/2017 14:31	22200.001	370	5.821	13.44	16.688	20.822	14.342
6/15/2017 14:32	22230.001	370.5	5.827	13.454	16.702	20.808	14.351
6/15/2017 14:32	22260.001	371	5.83	13.461	16.709	20.801	14.332
6/15/2017 14:33	22290.001	371.5	5.834	13.47	16.718	20.792	14.342
6/15/2017 14:33	22320.001	372	5.841	13.486	16.734	20.776	14.356
6/15/2017 14:34	22350.001	372.5	5.843	13.492	16.74	20.77	14.348
6/15/2017 14:34	22380.001	373	5.848	13.503	16.751	20.759	14.319
6/15/2017 14:35	22410.001	373.5	5.851	13.509	16.757	20.753	14.321
6/15/2017 14:36	22440.001	374	5.856	13.521	16.769	20.741	14.343
6/15/2017 14:36	22470.001	374.5	5.861	13.532	16.78	20.73	14.333
6/15/2017 14:37	22500.001	375	5.861	13.534	16.782	20.728	14.304
6/15/2017 14:37	22530.001	375.5	5.868	13.549	16.797	20.713	14.309
6/15/2017 14:37	22560.001	376	5.871	13.557	16.805	20.705	14.314
6/15/2017 14:38	22590.001	376.5	5.875	13.564	16.812	20.698	14.338
6/15/2017 14:38	22620.001	377	5.879	13.574	16.822	20.688	14.314
6/15/2017 14:39	22650.001	377.5	5.883	13.584	16.832	20.678	14.332
6/15/2017 14:39	22680.001	378	5.884	13.585	16.833	20.677	14.331
6/15/2017 14:40	22710.001	378.5	5.889	13.597	16.845	20.665	14.32
6/15/2017 14:40	22740.001	379	5.893	13.607	16.855	20.655	14.31
6/15/2017 14:41	22770.001	379.5	5.893	13.607	16.855	20.655	14.315
6/15/2017 14:41	22800.001	380	5.897	13.616	16.864	20.646	14.35
6/15/2017 14:42	22830.001	380.5	5.9	13.622	16.87	20.64	14.342
6/15/2017 14:42	22860.001	381	5.905	13.634	16.882	20.628	14.303
6/15/2017 14:43	22890.001	381.5	5.908	13.64	16.888	20.622	14.345
6/15/2017 14:43	22920.001	382	5.91	13.646	16.894	20.616	14.323
6/15/2017 14:44	22950.001	382.5	5.91	13.646	16.894	20.616	14.335
6/15/2017 14:44	22980.001	383	5.916	13.661	16.909	20.601	14.334
6/15/2017 14:45	23010.001	383.5	5.915	13.659	16.907	20.603	14.355
6/15/2017 14:46	23040.001	384	5.92	13.669	16.917	20.593	14.318
6/15/2017 14:46	23070.001	384.5	5.921	13.672	16.92	20.59	14.325
6/15/2017 14:47	23100.001	385	5.927	13.686	16.934	20.576	14.298
6/15/2017 14:47	23130.001	385.5	5.927	13.685	16.933	20.577	14.326

6/15/2017 14:48	23160.001	386	5,929	13,691	16,939	20,571	14,35
6/15/2017 14:48	23190.001	386.5	5,937	13,707	16,955	20,555	14,325
6/15/2017 14:49	23220.001	387	5,94	13,715	16,963	20,547	14,326
6/15/2017 14:49	23250.001	387.5	5,94	13,716	16,964	20,546	14,34
6/15/2017 14:50	23280.001	388	5,944	13,723	16,971	20,539	14,295
6/15/2017 14:50	23310.001	388.5	5,945	13,727	16,975	20,535	14,293
6/15/2017 14:51	23340.001	389	5,95	13,738	16,986	20,524	14,307
6/15/2017 14:51	23370.001	389.5	5,949	13,735	16,983	20,527	14,296
6/15/2017 14:52	23400.001	390	5,952	13,744	16,992	20,518	14,311
6/15/2017 14:52	23430.001	390.5	5,954	13,749	16,997	20,513	14,318
6/15/2017 14:53	23460.001	391	5,957	13,754	17,002	20,508	14,327
6/15/2017 14:53	23490.001	391.5	5,957	13,754	17,002	20,508	14,333
6/15/2017 14:54	23520.001	392	5,96	13,76	17,008	20,502	14,325
6/15/2017 14:54	23550.001	392.5	5,96	13,762	17,01	20,5	14,321
6/15/2017 14:55	23580.001	393	5,961	13,764	17,012	20,498	14,309
6/15/2017 14:55	23610.001	393.5	5,963	13,769	17,017	20,493	14,307
6/15/2017 14:56	23640.001	394	5,965	13,774	17,022	20,488	14,278

Report Date: 6/16/2017 11:37

Report User Name: spauldingj
Report Computer Name: LAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0

Log File Properties

File Name PZ-17-1 (Pump)_2017-06-15_15-27-17-617.wsl
Create Date 6/15/2017 15:27

Device Properties

Device Level TROLL 700
Site Orange County Landfill
Device Name 429368
Serial Number 3.03
Firmware Version 5
Hardware Version 1
Device Address 19200
Device Comm Cfg 4
Used Memory 11
Used Battery 8 Even

Log Configuration

Log Name	PZ-17-1 (Pump)
Created By	Spauldingj
Computer Name	LAPTOP04
Application	WinSitu.exe
Application Version	5.6.25.0
Create Date	6/15/2017 8:24:26 AM Eastern Daylight Time
Log Setup Time Zone	Eastern Daylight Time
Notes Size(bytes)	4096
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop Time	No Stop Time
Type	Linear
Interval	Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Depth
Specific Gravity	0.999

Other Log Settings

Depth of Probe: 7.19792 (ft)

Head Pressure: 3.11737 (PSI)
Temperature: 13.8138 (C)

Log Notes:

Date and Time Note
6/15/2017 8:24 Used Battery: 11% Used Memory: 4% User Name: SpauldingJ
6/15/2017 8:24 Manual Start Command
6/15/2017 15:26 Suspend Command
6/15/2017 15:27 Log Download - Used Battery: 11% Used Memory: 4% User Name: SpauldingJ

Log Data:

Record Count 423

Sensors

1

429368 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time Seconds	Minutes	Sensor: Pres(G) 35ft SN#: 429368		Sensor: Pres(G) 35ft SN#: 429368		Sensor: Pres(G) 35ft SN#: 429368	
			Pressure (PSI)	Depth (ft)	Calculations	Water Level (ft)	Temperature (C)	Temperature (C)
6/15/2017 8:24	0	0	3.117	7.197	11.94	19.62	13.83	
6/15/2017 8:25	60.001		3.145	7.262	12.005	19.555	13.814	
6/15/2017 8:26	120.001		3.158	7.291	12.034	19.526	13.803	
6/15/2017 8:27	180.001		3.151	7.276	12.019	19.541	13.792	
6/15/2017 8:28	240.001		3.175	7.33	12.073	19.487	13.808	
6/15/2017 8:29	300.001		3.172	7.324	12.067	19.493	13.776	
6/15/2017 8:30	360.001		3.17	7.32	12.063	19.497	13.775	
6/15/2017 8:31	420.001		3.168	7.314	12.057	19.503	13.788	
6/15/2017 8:32	480.001		3.167	7.311	12.054	19.506	13.805	
6/15/2017 8:33	540.001		3.163	7.302	12.045	19.515	13.79	
6/15/2017 8:34	600.001		3.164	7.305	12.048	19.512	13.785	
6/15/2017 8:35	660.001		3.159	7.294	12.037	19.523	13.784	
6/15/2017 8:36	720.001		3.161	7.299	12.042	19.518	13.77	
6/15/2017 8:37	780.001		3.16	7.297	12.04	19.52	13.811	
6/15/2017 8:38	840.001		3.159	7.295	12.038	19.522	13.78	
6/15/2017 8:39	900.001		3.152	7.278	12.021	19.539	13.784	
6/15/2017 8:40	960.001		3.135	7.238	11.981	19.579	13.798	
6/15/2017 8:41	1020.001		3.115	7.193	11.936	19.624	13.808	
6/15/2017 8:42	1080.001		3.11	7.181	11.924	19.636	13.784	
6/15/2017 8:43	1140.001		3.083	7.118	11.861	19.699	13.808	
6/15/2017 8:44	1200.001		3.059	7.062	11.805	19.755	13.806	
6/15/2017 8:45	1260.001		3.037	7.012	11.755	19.805	13.805	

6/15/2017 8:46	1320.001	22	3.019	6.972	11.715	19.845	13.788
6/15/2017 8:47	1380.001	23	3.003	6.933	11.676	19.884	13.764
6/15/2017 8:48	1440.001	24	2.99	6.904	11.647	19.913	13.78
6/15/2017 8:49	1500.001	25	2.975	6.869	11.612	19.948	13.787
6/15/2017 8:50	1560.001	26	2.968	6.854	11.597	19.963	13.794
6/15/2017 8:51	1620.001	27	2.957	6.827	11.57	19.99	13.783
6/15/2017 8:52	1680.001	28	2.949	6.809	11.552	20.008	13.788
6/15/2017 8:53	1740.001	29	2.939	6.786	11.529	20.031	13.761
6/15/2017 8:54	1800.001	30	2.929	6.762	11.505	20.055	13.753
6/15/2017 8:55	1860.001	31	2.926	6.755	11.498	20.062	13.787
6/15/2017 8:56	1920.001	32	2.921	6.744	11.487	20.073	13.785
6/15/2017 8:57	1980.001	33	2.924	6.752	11.495	20.065	13.784
6/15/2017 8:58	2040.001	34	2.923	6.749	11.492	20.068	13.774
6/15/2017 8:59	2100.001	35	2.919	6.741	11.484	20.076	13.773
6/15/2017 9:00	2160.001	36	2.913	6.727	11.47	20.09	13.787
6/15/2017 9:01	2220.001	37	2.908	6.714	11.457	20.103	13.783
6/15/2017 9:02	2280.001	38	2.907	6.712	11.455	20.105	13.793
6/15/2017 9:03	2340.001	39	2.9	6.695	11.438	20.122	13.775
6/15/2017 9:04	2400.001	40	2.906	6.709	11.452	20.108	13.787
6/15/2017 9:05	2460.001	41	2.903	6.702	11.445	20.115	13.773
6/15/2017 9:06	2520.001	42	2.899	6.694	11.437	20.123	13.777
6/15/2017 9:07	2580.001	43	2.894	6.683	11.426	20.134	13.781
6/15/2017 9:08	2640.001	44	2.893	6.679	11.422	20.138	13.762
6/15/2017 9:09	2700.001	45	2.891	6.675	11.418	20.142	13.787
6/15/2017 9:10	2760.001	46	2.888	6.668	11.411	20.149	13.771
6/15/2017 9:11	2820.001	47	2.885	6.663	11.406	20.154	13.773
6/15/2017 9:12	2880.001	48	2.881	6.652	11.395	20.165	13.8
6/15/2017 9:13	2940.001	49	2.878	6.644	11.387	20.173	13.787
6/15/2017 9:14	3000.001	50	2.878	6.645	11.388	20.172	13.793
6/15/2017 9:15	3060.001	51	2.878	6.646	11.389	20.171	13.777
6/15/2017 9:16	3120.001	52	2.869	6.625	11.368	20.192	13.775
6/15/2017 9:17	3180.001	53	2.88	6.649	11.392	20.168	13.772
6/15/2017 9:18	3240.001	54	2.874	6.636	11.379	20.181	13.787
6/15/2017 9:19	3300.001	55	2.869	6.626	11.369	20.191	13.773
6/15/2017 9:20	3360.001	56	2.863	6.61	11.353	20.207	13.804
6/15/2017 9:21	3420.001	57	2.857	6.596	11.339	20.221	13.775
6/15/2017 9:22	3480.001	58	2.852	6.585	11.328	20.232	13.793
6/15/2017 9:23	3540.001	59	2.847	6.573	11.316	20.244	13.788
6/15/2017 9:24	3600.001	60	2.84	6.557	11.3	20.26	13.787
6/15/2017 9:25	3660.001	61	2.838	6.554	11.297	20.263	13.792
6/15/2017 9:26	3720.001	62	2.833	6.542	11.285	20.275	13.804
6/15/2017 9:27	3780.001	63	2.833	6.54	11.283	20.277	13.783
6/15/2017 9:28	3840.001	64	2.833	6.542	11.285	20.275	13.795
6/15/2017 9:29	3900.001	65	2.833	6.541	11.284	20.276	13.789
6/15/2017 9:30	3960.001	66	2.833	6.542	11.285	20.275	13.797
6/15/2017 9:31	4020.001	67	2.832	6.54	11.283	20.277	13.798
6/15/2017 9:32	4080.001	68	2.836	6.548	11.291	20.269	13.786

6/15/2017 9:33	4140.001	69	2.835	6.546	11.289	20.271	13.801
6/15/2017 9:34	4200.001	70	2.834	6.543	11.286	20.274	13.795
6/15/2017 9:35	4260.001	71	2.834	6.544	11.287	20.273	13.797
6/15/2017 9:36	4320.001	72	2.835	6.547	11.29	20.27	13.805
6/15/2017 9:37	4380.001	73	2.839	6.555	11.298	20.262	13.784
6/15/2017 9:38	4440.001	74	2.84	6.558	11.301	20.259	13.767
6/15/2017 9:39	4500.001	75	2.839	6.554	11.297	20.263	13.792
6/15/2017 9:40	4560.001	76	2.839	6.555	11.298	20.262	13.779
6/15/2017 9:41	4620.001	77	2.838	6.553	11.296	20.264	13.771
6/15/2017 9:42	4680.001	78	2.837	6.55	11.293	20.267	13.798
6/15/2017 9:43	4740.001	79	2.838	6.552	11.295	20.265	13.8
6/15/2017 9:44	4800.001	80	2.836	6.548	11.291	20.269	13.794
6/15/2017 9:45	4860.001	81	2.835	6.547	11.29	20.27	13.78
6/15/2017 9:46	4920.001	82	2.834	6.543	11.286	20.274	13.785
6/15/2017 9:47	4980.001	83	2.833	6.542	11.285	20.275	13.793
6/15/2017 9:48	5040.001	84	2.832	6.538	11.281	20.279	13.793
6/15/2017 9:49	5100.001	85	2.831	6.536	11.279	20.281	13.787
6/15/2017 9:50	5160.001	86	2.833	6.54	11.283	20.277	13.807
6/15/2017 9:51	5220.001	87	2.83	6.535	11.278	20.282	13.775
6/15/2017 9:52	5280.001	88	2.83	6.535	11.278	20.282	13.793
6/15/2017 9:53	5340.001	89	2.831	6.537	11.28	20.28	13.815
6/15/2017 9:54	5400.001	90	2.83	6.535	11.278	20.282	13.8
6/15/2017 9:55	5460.001	91	2.829	6.531	11.274	20.286	13.784
6/15/2017 9:56	5520.001	92	2.829	6.532	11.275	20.285	13.773
6/15/2017 9:57	5580.001	93	2.827	6.528	11.271	20.289	13.794
6/15/2017 9:58	5640.001	94	2.827	6.528	11.271	20.289	13.775
6/15/2017 9:59	5700.001	95	2.826	6.524	11.267	20.293	13.77
6/15/2017 10:00	5760.001	96	2.828	6.53	11.273	20.287	13.784
6/15/2017 10:01	5820.001	97	2.826	6.525	11.268	20.292	13.779
6/15/2017 10:02	5880.001	98	2.826	6.525	11.268	20.292	13.776
6/15/2017 10:03	5940.001	99	2.825	6.523	11.266	20.294	13.79
6/15/2017 10:04	6000.001	100	2.826	6.524	11.267	20.293	13.795
6/15/2017 10:05	6060.001	101	2.824	6.52	11.263	20.297	13.816
6/15/2017 10:06	6120.001	102	2.823	6.519	11.262	20.298	13.793
6/15/2017 10:07	6180.001	103	2.824	6.52	11.263	20.297	13.776
6/15/2017 10:08	6240.001	104	2.823	6.517	11.26	20.3	13.792
6/15/2017 10:09	6300.001	105	2.823	6.518	11.261	20.299	13.782
6/15/2017 10:10	6360.001	106	2.822	6.516	11.259	20.301	13.78
6/15/2017 10:11	6420.001	107	2.821	6.513	11.256	20.304	13.782
6/15/2017 10:12	6480.001	108	2.819	6.51	11.253	20.307	13.771
6/15/2017 10:13	6540.001	109	2.816	6.502	11.245	20.315	13.799
6/15/2017 10:14	6600.001	110	2.814	6.498	11.241	20.319	13.805
6/15/2017 10:15	6660.001	111	2.815	6.499	11.242	20.318	13.789
6/15/2017 10:16	6720.001	112	2.812	6.494	11.237	20.323	13.787
6/15/2017 10:17	6780.001	113	2.812	6.492	11.235	20.325	13.787
6/15/2017 10:18	6840.001	114	2.811	6.491	11.234	20.326	13.808
6/15/2017 10:19	6900.001	115	2.807	6.481	11.224	20.336	13.798

6/15/2017 10:20	6960.001	116	2.806	6.479	11.222	20.338	13.79
6/15/2017 10:21	7020.001	117	2.805	6.476	11.219	20.341	13.778
6/15/2017 10:22	7080.001	118	2.803	6.472	11.215	20.345	13.812
6/15/2017 10:23	7140.001	119	2.803	6.471	11.214	20.346	13.801
6/15/2017 10:24	7200.001	120	2.8	6.465	11.208	20.352	13.79
6/15/2017 10:25	7260.001	121	2.799	6.464	11.207	20.353	13.769
6/15/2017 10:26	7320.001	122	2.799	6.462	11.205	20.355	13.803
6/15/2017 10:27	7380.001	123	2.797	6.459	11.202	20.358	13.793
6/15/2017 10:28	7440.001	124	2.798	6.46	11.203	20.357	13.793
6/15/2017 10:29	7500.001	125	2.799	6.462	11.205	20.355	13.764
6/15/2017 10:30	7560.001	126	2.796	6.457	11.2	20.36	13.811
6/15/2017 10:31	7620.001	127	2.796	6.457	11.2	20.36	13.825
6/15/2017 10:32	7680.001	128	2.796	6.456	11.199	20.361	13.785
6/15/2017 10:33	7740.001	129	2.793	6.449	11.192	20.368	13.793
6/15/2017 10:34	7800.001	130	2.795	6.453	11.196	20.364	13.794
6/15/2017 10:35	7860.001	131	2.789	6.441	11.184	20.376	13.785
6/15/2017 10:36	7920.001	132	2.794	6.45	11.193	20.367	13.764
6/15/2017 10:37	7980.001	133	2.794	6.451	11.194	20.366	13.793
6/15/2017 10:38	8040.001	134	2.792	6.447	11.19	20.37	13.804
6/15/2017 10:39	8100.001	135	2.79	6.443	11.186	20.374	13.795
6/15/2017 10:40	8160.001	136	2.793	6.45	11.193	20.367	13.798
6/15/2017 10:41	8220.001	137	2.791	6.444	11.187	20.373	13.786
6/15/2017 10:42	8280.001	138	2.791	6.445	11.188	20.372	13.784
6/15/2017 10:43	8340.001	139	2.791	6.445	11.188	20.372	13.789
6/15/2017 10:44	8400.001	140	2.789	6.441	11.184	20.376	13.778
6/15/2017 10:45	8460.001	141	2.791	6.444	11.187	20.373	13.792
6/15/2017 10:46	8520.001	142	2.79	6.441	11.184	20.376	13.777
6/15/2017 10:47	8580.001	143	2.79	6.442	11.185	20.375	13.804
6/15/2017 10:48	8640.001	144	2.789	6.441	11.184	20.376	13.804
6/15/2017 10:49	8700.001	145	2.79	6.442	11.185	20.375	13.782
6/15/2017 10:50	8760.001	146	2.79	6.443	11.186	20.374	13.788
6/15/2017 10:51	8820.001	147	2.786	6.434	11.177	20.383	13.783
6/15/2017 10:52	8880.001	148	2.79	6.441	11.184	20.376	13.781
6/15/2017 10:53	8940.001	149	2.788	6.438	11.181	20.379	13.8
6/15/2017 10:54	9000.001	150	2.787	6.435	11.178	20.382	13.794
6/15/2017 10:55	9060.001	151	2.788	6.437	11.18	20.38	13.82
6/15/2017 10:56	9120.001	152	2.786	6.434	11.177	20.383	13.815
6/15/2017 10:57	9180.001	153	2.787	6.435	11.178	20.382	13.798
6/15/2017 10:58	9240.001	154	2.789	6.439	11.182	20.378	13.801
6/15/2017 10:59	9300.001	155	2.787	6.434	11.177	20.383	13.793
6/15/2017 11:00	9360.001	156	2.787	6.435	11.178	20.382	13.777
6/15/2017 11:01	9420.001	157	2.787	6.434	11.177	20.383	13.798
6/15/2017 11:02	9480.001	158	2.786	6.433	11.176	20.384	13.807
6/15/2017 11:03	9540.001	159	2.786	6.434	11.177	20.383	13.784
6/15/2017 11:04	9600.001	160	2.786	6.432	11.175	20.385	13.82
6/15/2017 11:05	9660.001	161	2.786	6.433	11.176	20.384	13.815
6/15/2017 11:06	9720.001	162	2.787	6.434	11.177	20.383	13.785

6/15/2017 11:07	9780.001	163	2.786	6.432	11.175	20.385	13.772
6/15/2017 11:08	9840.001	164	2.784	6.429	11.172	20.388	13.79
6/15/2017 11:09	9900.001	165	2.785	6.431	11.174	20.386	13.809
6/15/2017 11:10	9960.001	166	2.786	6.433	11.176	20.384	13.796
6/15/2017 11:11	10020.001	167	2.786	6.433	11.176	20.384	13.795
6/15/2017 11:12	10080.001	168	2.784	6.428	11.171	20.389	13.79
6/15/2017 11:13	10140.001	169	2.786	6.432	11.175	20.385	13.782
6/15/2017 11:14	10200.001	170	2.785	6.431	11.174	20.386	13.797
6/15/2017 11:15	10260.001	171	2.786	6.432	11.175	20.385	13.775
6/15/2017 11:16	10320.001	172	2.785	6.43	11.173	20.387	13.789
6/15/2017 11:17	10380.001	173	2.786	6.433	11.176	20.384	13.778
6/15/2017 11:18	10440.001	174	2.784	6.429	11.172	20.388	13.781
6/15/2017 11:19	10500.001	175	2.787	6.435	11.178	20.382	13.79
6/15/2017 11:20	10560.001	176	2.782	6.423	11.166	20.394	13.792
6/15/2017 11:21	10620.001	177	2.786	6.433	11.176	20.384	13.786
6/15/2017 11:22	10680.001	178	2.784	6.428	11.171	20.389	13.782
6/15/2017 11:23	10740.001	179	2.787	6.435	11.178	20.382	13.761
6/15/2017 11:24	10800.001	180	2.784	6.428	11.171	20.389	13.792
6/15/2017 11:25	10860.001	181	2.785	6.431	11.174	20.386	13.798
6/15/2017 11:26	10920.001	182	2.783	6.426	11.169	20.391	13.778
6/15/2017 11:27	10980.001	183	2.785	6.431	11.174	20.386	13.813
6/15/2017 11:28	11040.001	184	2.782	6.423	11.166	20.394	13.787
6/15/2017 11:29	11100.001	185	2.784	6.429	11.172	20.388	13.787
6/15/2017 11:30	11160.001	186	2.785	6.43	11.173	20.387	13.801
6/15/2017 11:31	11220.001	187	2.784	6.427	11.17	20.39	13.779
6/15/2017 11:32	11280.001	188	2.784	6.427	11.17	20.39	13.803
6/15/2017 11:33	11340.001	189	2.785	6.43	11.173	20.387	13.787
6/15/2017 11:34	11400.001	190	2.783	6.427	11.17	20.39	13.798
6/15/2017 11:35	11460.001	191	2.784	6.428	11.171	20.389	13.773
6/15/2017 11:36	11520.001	192	2.786	6.433	11.176	20.384	13.788
6/15/2017 11:37	11580.001	193	2.784	6.427	11.17	20.39	13.787
6/15/2017 11:38	11640.001	194	2.784	6.428	11.171	20.389	13.787
6/15/2017 11:39	11700.001	195	2.782	6.424	11.167	20.393	13.79
6/15/2017 11:40	11760.001	196	2.784	6.427	11.17	20.39	13.795
6/15/2017 11:41	11820.001	197	2.781	6.422	11.165	20.395	13.788
6/15/2017 11:42	11880.001	198	2.783	6.427	11.17	20.39	13.792
6/15/2017 11:43	11940.001	199	2.784	6.428	11.171	20.389	13.784
6/15/2017 11:44	12000.001	200	2.784	6.428	11.171	20.389	13.812
6/15/2017 11:45	12060.001	201	2.783	6.426	11.169	20.391	13.798
6/15/2017 11:46	12120.001	202	2.784	6.429	11.172	20.388	13.774
6/15/2017 11:47	12180.001	203	2.784	6.428	11.171	20.389	13.796
6/15/2017 11:48	12240.001	204	2.784	6.429	11.172	20.388	13.805
6/15/2017 11:49	12300.001	205	2.784	6.428	11.171	20.389	13.8
6/15/2017 11:50	12360.001	206	2.785	6.431	11.174	20.386	13.79
6/15/2017 11:51	12420.001	207	2.783	6.426	11.169	20.391	13.8
6/15/2017 11:52	12480.001	208	2.78	6.42	11.163	20.397	13.784
6/15/2017 11:53	12540.001	209	2.783	6.426	11.169	20.391	13.82

6/15/2017 11:54	12600.001	210	2.782	6.423	11.166	20.394	13.792
6/15/2017 11:55	12660.001	211	2.783	6.427	11.17	20.39	13.808
6/15/2017 11:56	12720.001	212	2.781	6.422	11.165	20.395	13.801
6/15/2017 11:57	12780.001	213	2.784	6.429	11.172	20.388	13.789
6/15/2017 11:58	12840.001	214	2.781	6.421	11.164	20.396	13.793
6/15/2017 11:59	12900.001	215	2.782	6.423	11.166	20.394	13.798
6/15/2017 12:00	12960.001	216	2.782	6.424	11.167	20.393	13.787
6/15/2017 12:01	13020.001	217	2.788	6.438	11.181	20.379	13.804
6/15/2017 12:02	13080.001	218	2.788	6.438	11.181	20.379	13.784
6/15/2017 12:03	13140.001	219	2.789	6.44	11.183	20.377	13.795
6/15/2017 12:04	13200.001	220	2.787	6.434	11.177	20.383	13.791
6/15/2017 12:05	13260.001	221	2.786	6.434	11.177	20.383	13.814
6/15/2017 12:06	13320.001	222	2.786	6.433	11.176	20.384	13.789
6/15/2017 12:07	13380.001	223	2.788	6.437	11.18	20.38	13.797
6/15/2017 12:08	13440.001	224	2.785	6.431	11.174	20.386	13.782
6/15/2017 12:09	13500.001	225	2.784	6.429	11.172	20.388	13.803
6/15/2017 12:10	13560.001	226	2.787	6.435	11.178	20.382	13.793
6/15/2017 12:11	13620.001	227	2.787	6.436	11.179	20.381	13.797
6/15/2017 12:12	13680.001	228	2.788	6.437	11.18	20.38	13.783
6/15/2017 12:13	13740.001	229	2.787	6.436	11.179	20.381	13.756
6/15/2017 12:14	13800.001	230	2.787	6.435	11.178	20.382	13.821
6/15/2017 12:15	13860.001	231	2.787	6.435	11.178	20.382	13.79
6/15/2017 12:16	13920.001	232	2.785	6.431	11.174	20.386	13.8
6/15/2017 12:17	13980.001	233	2.786	6.433	11.176	20.384	13.754
6/15/2017 12:18	14040.001	234	2.786	6.432	11.175	20.385	13.791
6/15/2017 12:19	14100.001	235	2.787	6.434	11.177	20.383	13.796
6/15/2017 12:20	14160.001	236	2.787	6.434	11.177	20.383	13.798
6/15/2017 12:21	14220.001	237	2.785	6.429	11.172	20.388	13.789
6/15/2017 12:22	14280.001	238	2.793	6.45	11.193	20.367	13.809
6/15/2017 12:23	14340.001	239	2.799	6.463	11.206	20.354	13.782
6/15/2017 12:24	14400.001	240	2.803	6.472	11.215	20.345	13.793
6/15/2017 12:25	14460.001	241	2.809	6.486	11.229	20.331	13.795
6/15/2017 12:26	14520.001	242	2.813	6.496	11.239	20.321	13.771
6/15/2017 12:27	14580.001	243	2.814	6.498	11.241	20.319	13.81
6/15/2017 12:28	14640.001	244	2.819	6.508	11.251	20.309	13.802
6/15/2017 12:29	14700.001	245	2.822	6.517	11.26	20.3	13.795
6/15/2017 12:30	14760.001	246	2.825	6.523	11.266	20.294	13.798
6/15/2017 12:31	14820.001	247	2.824	6.519	11.262	20.298	13.8
6/15/2017 12:32	14880.001	248	2.826	6.525	11.268	20.292	13.793
6/15/2017 12:33	14940.001	249	2.828	6.529	11.272	20.288	13.798
6/15/2017 12:34	15000.001	250	2.828	6.53	11.273	20.287	13.793
6/15/2017 12:35	15060.001	251	2.829	6.533	11.276	20.284	13.79
6/15/2017 12:36	15120.001	252	2.83	6.535	11.278	20.282	13.792
6/15/2017 12:37	15180.001	253	2.832	6.538	11.281	20.279	13.799
6/15/2017 12:38	15240.001	254	2.83	6.534	11.277	20.283	13.804
6/15/2017 12:39	15300.001	255	2.83	6.535	11.278	20.282	13.768
6/15/2017 12:40	15360.001	256	2.83	6.534	11.277	20.283	13.792

6/15/2017 12:41	15420.001	257	2.827	6.527	11.27	20.29	13.785
6/15/2017 12:42	15480.001	258	2.823	6.518	11.261	20.299	13.806
6/15/2017 12:43	15540.001	259	2.821	6.513	11.256	20.304	13.789
6/15/2017 12:44	15600.001	260	2.818	6.507	11.25	20.31	13.776
6/15/2017 12:45	15660.001	261	2.81	6.488	11.231	20.329	13.79
6/15/2017 12:46	15720.001	262	2.811	6.491	11.234	20.326	13.795
6/15/2017 12:47	15780.001	263	2.809	6.485	11.228	20.332	13.773
6/15/2017 12:48	15840.001	264	2.806	6.478	11.221	20.339	13.801
6/15/2017 12:49	15900.001	265	2.804	6.475	11.218	20.342	13.785
6/15/2017 12:50	15960.001	266	2.802	6.47	11.213	20.347	13.804
6/15/2017 12:51	16020.001	267	2.799	6.464	11.207	20.353	13.804
6/15/2017 12:52	16080.001	268	2.798	6.461	11.204	20.356	13.795
6/15/2017 12:53	16140.001	269	2.797	6.457	11.2	20.36	13.79
6/15/2017 12:54	16200.001	270	2.798	6.46	11.203	20.357	13.785
6/15/2017 12:55	16260.001	271	2.795	6.453	11.196	20.364	13.788
6/15/2017 12:56	16320.001	272	2.795	6.453	11.196	20.364	13.775
6/15/2017 12:57	16380.001	273	2.796	6.455	11.198	20.362	13.802
6/15/2017 12:58	16440.001	274	2.793	6.449	11.192	20.368	13.804
6/15/2017 12:59	16500.001	275	2.79	6.442	11.185	20.375	13.802
6/15/2017 13:00	16560.001	276	2.793	6.448	11.191	20.369	13.794
6/15/2017 13:01	16620.001	277	2.791	6.444	11.187	20.373	13.81
6/15/2017 13:02	16680.001	278	2.79	6.442	11.185	20.375	13.792
6/15/2017 13:03	16740.001	279	2.79	6.443	11.186	20.374	13.792
6/15/2017 13:04	16800.001	280	2.789	6.439	11.182	20.378	13.794
6/15/2017 13:05	16860.001	281	2.787	6.435	11.178	20.382	13.775
6/15/2017 13:06	16920.001	282	2.786	6.434	11.177	20.383	13.788
6/15/2017 13:07	16980.001	283	2.789	6.439	11.182	20.378	13.787
6/15/2017 13:08	17040.001	284	2.786	6.434	11.177	20.383	13.795
6/15/2017 13:09	17100.001	285	2.785	6.43	11.173	20.387	13.808
6/15/2017 13:10	17160.001	286	2.786	6.434	11.177	20.383	13.789
6/15/2017 13:11	17220.001	287	2.787	6.434	11.177	20.383	13.786
6/15/2017 13:12	17280.001	288	2.791	6.443	11.186	20.374	13.777
6/15/2017 13:13	17340.001	289	2.785	6.429	11.172	20.388	13.803
6/15/2017 13:14	17400.001	290	2.786	6.432	11.175	20.385	13.784
6/15/2017 13:15	17460.001	291	2.788	6.436	11.179	20.381	13.797
6/15/2017 13:16	17520.001	292	2.79	6.442	11.185	20.375	13.801
6/15/2017 13:17	17580.001	293	2.79	6.441	11.184	20.376	13.789
6/15/2017 13:18	17640.001	294	2.791	6.445	11.188	20.372	13.797
6/15/2017 13:19	17700.001	295	2.791	6.445	11.188	20.372	13.773
6/15/2017 13:20	17760.001	296	2.795	6.453	11.196	20.364	13.8
6/15/2017 13:21	17820.001	297	2.797	6.459	11.202	20.358	13.791
6/15/2017 13:22	17880.001	298	2.804	6.474	11.217	20.343	13.786
6/15/2017 13:23	17940.001	299	2.806	6.48	11.223	20.337	13.773
6/15/2017 13:24	18000.001	300	2.809	6.486	11.229	20.331	13.798
6/15/2017 13:25	18060.001	301	2.815	6.5	11.243	20.317	13.784
6/15/2017 13:26	18120.001	302	2.823	6.519	11.262	20.298	13.79
6/15/2017 13:27	18180.001	303	2.83	6.535	11.278	20.282	13.79

6/15/2017 13:28	18240.001	304	2.835	6.547	11.29	20.27	13.793
6/15/2017 13:29	18300.001	305	2.844	6.566	11.309	20.251	13.827
6/15/2017 13:30	18360.001	306	2.853	6.587	11.33	20.23	13.819
6/15/2017 13:31	18420.001	307	2.86	6.604	11.347	20.213	13.779
6/15/2017 13:32	18480.001	308	2.865	6.614	11.357	20.203	13.817
6/15/2017 13:33	18540.001	309	2.874	6.635	11.378	20.182	13.791
6/15/2017 13:34	18600.001	310	2.883	6.658	11.401	20.159	13.799
6/15/2017 13:35	18660.001	311	2.892	6.677	11.42	20.14	13.79
6/15/2017 13:36	18720.001	312	2.899	6.693	11.436	20.124	13.788
6/15/2017 13:37	18780.001	313	2.905	6.707	11.45	20.11	13.833
6/15/2017 13:38	18840.001	314	2.914	6.727	11.47	20.09	13.787
6/15/2017 13:39	18900.001	315	2.921	6.745	11.488	20.072	13.806
6/15/2017 13:40	18960.001	316	2.927	6.758	11.501	20.059	13.795
6/15/2017 13:41	19020.001	317	2.937	6.782	11.525	20.035	13.827
6/15/2017 13:42	19080.001	318	2.941	6.791	11.534	20.026	13.792
6/15/2017 13:43	19140.001	319	2.947	6.806	11.549	20.011	13.791
6/15/2017 13:44	19200.001	320	2.953	6.817	11.56	20	13.803
6/15/2017 13:45	19260.001	321	2.96	6.834	11.577	19.983	13.786
6/15/2017 13:46	19320.001	322	2.968	6.852	11.595	19.965	13.794
6/15/2017 13:47	19380.001	323	2.974	6.867	11.61	19.95	13.797
6/15/2017 13:48	19440.001	324	2.979	6.879	11.622	19.938	13.801
6/15/2017 13:49	19500.001	325	2.985	6.892	11.635	19.925	13.776
6/15/2017 13:50	19560.001	326	2.988	6.9	11.643	19.917	13.784
6/15/2017 13:51	19620.001	327	2.995	6.916	11.659	19.901	13.793
6/15/2017 13:52	19680.001	328	3	6.928	11.671	19.889	13.795
6/15/2017 13:53	19740.001	329	3.006	6.94	11.683	19.877	13.795
6/15/2017 13:54	19800.001	330	3.01	6.951	11.694	19.866	13.793
6/15/2017 13:55	19860.001	331	3.016	6.963	11.706	19.854	13.795
6/15/2017 13:56	19920.001	332	3.024	6.982	11.725	19.835	13.798
6/15/2017 13:57	19980.001	333	3.027	6.989	11.732	19.828	13.773
6/15/2017 13:58	20040.001	334	3.032	7.001	11.744	19.816	13.799
6/15/2017 13:59	20100.001	335	3.037	7.013	11.756	19.804	13.801
6/15/2017 14:00	20160.001	336	3.046	7.033	11.776	19.784	13.816
6/15/2017 14:01	20220.001	337	3.047	7.035	11.778	19.782	13.773
6/15/2017 14:02	20280.001	338	3.052	7.047	11.79	19.77	13.782
6/15/2017 14:03	20340.001	339	3.057	7.059	11.802	19.758	13.806
6/15/2017 14:04	20400.001	340	3.062	7.071	11.814	19.746	13.79
6/15/2017 14:05	20460.001	341	3.067	7.082	11.825	19.735	13.782
6/15/2017 14:06	20520.001	342	3.072	7.093	11.836	19.724	13.789
6/15/2017 14:07	20580.001	343	3.075	7.101	11.844	19.716	13.795
6/15/2017 14:08	20640.001	344	3.08	7.112	11.855	19.705	13.791
6/15/2017 14:09	20700.001	345	3.082	7.117	11.86	19.7	13.784
6/15/2017 14:10	20760.001	346	3.091	7.137	11.88	19.68	13.793
6/15/2017 14:11	20820.001	347	3.092	7.139	11.882	19.678	13.812
6/15/2017 14:12	20880.001	348	3.099	7.156	11.899	19.661	13.784
6/15/2017 14:13	20940.001	349	3.102	7.162	11.905	19.655	13.818
6/15/2017 14:14	21000.001	350	3.106	7.171	11.914	19.646	13.795

6/15/2017 14:15	21060.001	351	3.108	7.177	11.92	19.64	13.794
6/15/2017 14:16	21120.001	352	3.113	7.188	11.931	19.629	13.771
6/15/2017 14:17	21180.001	353	3.116	7.195	11.938	19.622	13.79
6/15/2017 14:18	21240.001	354	3.12	7.203	11.946	19.614	13.789
6/15/2017 14:19	21300.001	355	3.124	7.212	11.955	19.605	13.767
6/15/2017 14:20	21360.001	356	3.127	7.22	11.963	19.597	13.789
6/15/2017 14:21	21420.001	357	3.127	7.221	11.964	19.596	13.796
6/15/2017 14:22	21480.001	358	3.134	7.236	11.979	19.581	13.78
6/15/2017 14:23	21540.001	359	3.135	7.239	11.982	19.578	13.787
6/15/2017 14:24	21600.001	360	3.137	7.243	11.986	19.574	13.777
6/15/2017 14:25	21660.001	361	3.14	7.249	11.992	19.568	13.801
6/15/2017 14:26	21720.001	362	3.144	7.258	12.001	19.559	13.806
6/15/2017 14:27	21780.001	363	3.148	7.269	12.012	19.548	13.797
6/15/2017 14:28	21840.001	364	3.149	7.27	12.013	19.547	13.788
6/15/2017 14:29	21900.001	365	3.152	7.277	12.02	19.54	13.791
6/15/2017 14:30	21960.001	366	3.152	7.277	12.02	19.54	13.79
6/15/2017 14:31	22020.001	367	3.157	7.289	12.032	19.528	13.782
6/15/2017 14:32	22080.001	368	3.159	7.294	12.037	19.523	13.794
6/15/2017 14:33	22140.001	369	3.158	7.291	12.034	19.526	13.79
6/15/2017 14:34	22200.001	370	3.162	7.301	12.044	19.516	13.775
6/15/2017 14:35	22260.001	371	3.163	7.303	12.046	19.514	13.798
6/15/2017 14:36	22320.001	372	3.165	7.309	12.052	19.508	13.801
6/15/2017 14:37	22380.001	373	3.167	7.312	12.055	19.505	13.781
6/15/2017 14:38	22440.001	374	3.167	7.312	12.055	19.505	13.814
6/15/2017 14:39	22500.001	375	3.17	7.32	12.063	19.497	13.795
6/15/2017 14:40	22560.001	376	3.171	7.322	12.065	19.495	13.801
6/15/2017 14:41	22620.001	377	3.173	7.326	12.069	19.491	13.782
6/15/2017 14:42	22680.001	378	3.174	7.329	12.072	19.488	13.785
6/15/2017 14:43	22740.001	379	3.167	7.313	12.056	19.504	13.81
6/15/2017 14:44	22800.001	380	3.176	7.333	12.076	19.484	13.798
6/15/2017 14:45	22860.001	381	3.177	7.336	12.079	19.481	13.805
6/15/2017 14:46	22920.001	382	3.177	7.336	12.079	19.481	13.798
6/15/2017 14:47	22980.001	383	3.18	7.342	12.085	19.475	13.793
6/15/2017 14:48	23040.001	384	3.179	7.34	12.083	19.477	13.808
6/15/2017 14:49	23100.001	385	3.181	7.345	12.088	19.472	13.804
6/15/2017 14:50	23160.001	386	3.181	7.346	12.089	19.471	13.795
6/15/2017 14:51	23220.001	387	3.185	7.354	12.097	19.463	13.786
6/15/2017 14:52	23280.001	388	3.185	7.355	12.098	19.462	13.784
6/15/2017 14:53	23340.001	389	3.185	7.354	12.097	19.463	13.812
6/15/2017 14:54	23400.001	390	3.189	7.363	12.106	19.454	13.806
6/15/2017 14:55	23460.001	391	3.188	7.36	12.103	19.457	13.783
6/15/2017 14:56	23520.001	392	3.187	7.359	12.102	19.458	13.796
6/15/2017 14:57	23580.001	393	3.188	7.361	12.104	19.456	13.789
6/15/2017 14:58	23640.001	394	3.192	7.369	12.112	19.448	13.782
6/15/2017 14:59	23700.001	395	3.191	7.367	12.11	19.45	13.796
6/15/2017 15:00	23760.001	396	3.191	7.367	12.11	19.45	13.801
6/15/2017 15:01	23820.001	397	3.192	7.371	12.114	19.446	13.809

6/15/2017 15:02	23880.001	398	3.19	7.366	12.109	19.451	13.786
6/15/2017 15:03	23940.001	399	3.198	7.383	12.126	19.434	13.778
6/15/2017 15:04	24000.001	400	3.195	7.378	12.121	19.439	13.787
6/15/2017 15:05	24060.001	401	3.197	7.383	12.126	19.434	13.811
6/15/2017 15:06	24120.001	402	3.197	7.381	12.124	19.436	13.801
6/15/2017 15:07	24180.001	403	3.197	7.381	12.124	19.436	13.817
6/15/2017 15:08	24240.001	404	3.199	7.386	12.129	19.431	13.795
6/15/2017 15:09	24300.001	405	3.198	7.384	12.127	19.433	13.784
6/15/2017 15:10	24360.001	406	3.198	7.383	12.126	19.434	13.793
6/15/2017 15:11	24420.001	407	3.198	7.384	12.127	19.433	13.798
6/15/2017 15:12	24480.001	408	3.199	7.387	12.13	19.43	13.806
6/15/2017 15:13	24540.001	409	3.198	7.383	12.126	19.434	13.796
6/15/2017 15:14	24600.001	410	3.198	7.383	12.126	19.434	13.799
6/15/2017 15:15	24660.001	411	3.199	7.387	12.13	19.43	13.812
6/15/2017 15:16	24720.001	412	3.198	7.385	12.128	19.432	13.784
6/15/2017 15:17	24780.001	413	3.199	7.387	12.13	19.43	13.801
6/15/2017 15:18	24840.001	414	3.2	7.39	12.133	19.427	13.78
6/15/2017 15:19	24900.001	415	3.2	7.389	12.132	19.428	13.787
6/15/2017 15:20	24960.001	416	3.2	7.389	12.132	19.428	13.804
6/15/2017 15:21	25020.001	417	3.204	7.398	12.141	19.419	13.815
6/15/2017 15:22	25080.001	418	3.198	7.385	12.128	19.432	13.779
6/15/2017 15:23	25140.001	419	3.201	7.391	12.134	19.426	13.794
6/15/2017 15:24	25200.001	420	3.202	7.393	12.136	19.424	13.784
6/15/2017 15:25	25260.001	421	3.202	7.393	12.136	19.424	13.794
6/15/2017 15:26	25320.001	422	3.186	7.356	12.099	19.461	13.801

Report Date: 6/16/2017 11:37

Report User Name: spauldingj

Report Computer Name: LAPTOP04

Application: WinSitu.exe

Application Version: 5.6.25.0

Log File Properties

File Name PZ-17-2(Pump)_2017-06-15_15-22-46-851.wsl

Create Date 6/15/2017 15:22

Device Properties

Device Level TROLL 700

Site Orange County Landfill

Device Name 428981

Serial Number 3.03

Firmware Version 5

Hardware Version 1

Device Address 19200

Device Comm Cfg 3

Used Memory 11

Used Battery 11

8 Even

1

Log Configuration

Log Name

Created By

Computer Name

Application

Application Version

Create Date

Log Setup Time Zone

Notes Size(bytes)

Overwrite when full

Scheduled Start Time

Scheduled Stop Time

Type

Interval

PZ-17-2(Pump)

Spauldingj

LAPTOP04

WinSitu.exe

5.6.25.0

6/15/2017 8:19:44 AM Eastern Daylight Time

Eastern Daylight Time

4096

Disabled

Manual Start

No Stop Time

Linear

Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode

Specific Gravity

Depth

0.999

Other Log Settings

Depth of Probe:

7.2851 (ft)

Head Pressure: 3.15513 (PSI)
Temperature: 13.8844 (C)

Log Notes:

Date and Time Note

6/15/2017 8:19 Used Battery: 11% Used Memory: 4% User Name: SpauldingJ
6/15/2017 8:19 Manual Start Command
6/15/2017 15:22 Suspend Command
6/15/2017 15:22 Log Download - Used Battery: 11% Used Memory: 4% User Name: SpauldingJ

Log Data:

Record Count 423

Sensors

1

428981 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Date and Time	Elapsed Time Seconds	Minutes	Sensor: Pres(G) 35ft SN#: 428981		Sensor: Pres(G) 35ft SN#: 428981		Sensor: Pres(G) 35ft SN#: 428981	
			Pressure (PSI)	Depth (ft)	Calculations	Water Level (ft)	Temperature (C)	Temperature (C)
6/15/2017 8:19	0	0	3.148	7.268	12.15	20.08	13.907	13.907
6/15/2017 8:20	60	1	3.151	7.275	12.157	20.073	13.888	13.888
6/15/2017 8:21	120	2	3.142	7.254	12.136	20.094	13.916	13.916
6/15/2017 8:22	180	3	3.138	7.246	12.128	20.102	13.872	13.872
6/15/2017 8:23	240	4	3.136	7.241	12.123	20.107	13.87	13.87
6/15/2017 8:24	300	5	3.137	7.242	12.124	20.106	13.851	13.851
6/15/2017 8:25	360	6	3.135	7.239	12.121	20.109	13.869	13.869
6/15/2017 8:26	420	7	3.138	7.245	12.127	20.103	13.839	13.839
6/15/2017 8:27	480	8	3.134	7.236	12.118	20.112	13.854	13.854
6/15/2017 8:28	540	9	3.135	7.238	12.12	20.11	13.875	13.875
6/15/2017 8:29	600	10	3.137	7.244	12.126	20.104	13.868	13.868
6/15/2017 8:30	660	11	3.132	7.232	12.114	20.116	13.875	13.875
6/15/2017 8:31	720	12	3.136	7.241	12.123	20.107	13.901	13.901
6/15/2017 8:32	780	13	3.137	7.243	12.125	20.105	13.872	13.872
6/15/2017 8:33	840	14	3.135	7.239	12.121	20.109	13.895	13.895
6/15/2017 8:34	900	15	3.133	7.234	12.116	20.114	13.858	13.858
6/15/2017 8:35	960	16	3.135	7.238	12.12	20.11	13.906	13.906
6/15/2017 8:36	1020	17	3.135	7.238	12.12	20.11	13.878	13.878
6/15/2017 8:37	1080	18	3.134	7.237	12.119	20.111	13.909	13.909
6/15/2017 8:38	1140	19	3.128	7.224	12.106	20.124	13.89	13.89
6/15/2017 8:39	1200	20	3.111	7.183	12.065	20.165	13.869	13.869
6/15/2017 8:40	1260	21	3.087	7.129	12.011	20.219	13.874	13.874

6/15/2017 8:41	1320	22	3.053	7.049	11.931	20.299	13.898
6/15/2017 8:42	1380	23	3.021	6.975	11.857	20.373	13.873
6/15/2017 8:43	1440	24	2.984	6.89	11.772	20.458	13.828
6/15/2017 8:44	1500	25	2.957	6.827	11.709	20.521	13.857
6/15/2017 8:45	1560	26	2.934	6.775	11.657	20.573	13.86
6/15/2017 8:46	1620	27	2.916	6.733	11.615	20.615	13.848
6/15/2017 8:47	1680	28	2.903	6.702	11.584	20.646	13.845
6/15/2017 8:48	1740	29	2.89	6.673	11.555	20.675	13.84
6/15/2017 8:49	1800	30	2.882	6.654	11.536	20.694	13.841
6/15/2017 8:50	1860	31	2.877	6.642	11.524	20.706	13.81
6/15/2017 8:51	1920	32	2.867	6.621	11.503	20.727	13.826
6/15/2017 8:52	1980	33	2.864	6.613	11.495	20.735	13.835
6/15/2017 8:53	2040	34	2.856	6.594	11.476	20.754	13.832
6/15/2017 8:54	2100	35	2.853	6.588	11.47	20.76	13.826
6/15/2017 8:55	2160	36	2.851	6.583	11.465	20.765	13.862
6/15/2017 8:56	2220	37	2.846	6.57	11.452	20.778	13.813
6/15/2017 8:57	2280	38	2.844	6.567	11.449	20.781	13.806
6/15/2017 8:58	2340	39	2.842	6.562	11.444	20.786	13.846
6/15/2017 8:59	2400	40	2.839	6.554	11.436	20.794	13.817
6/15/2017 9:00	2460	41	2.838	6.552	11.434	20.796	13.825
6/15/2017 9:01	2520	42	2.835	6.547	11.429	20.801	13.837
6/15/2017 9:02	2580	43	2.835	6.547	11.429	20.801	13.837
6/15/2017 9:03	2640	44	2.832	6.539	11.421	20.809	13.834
6/15/2017 9:04	2700	45	2.83	6.534	11.416	20.814	13.833
6/15/2017 9:05	2760	46	2.829	6.533	11.415	20.815	13.871
6/15/2017 9:06	2820	47	2.829	6.532	11.414	20.816	13.874
6/15/2017 9:07	2880	48	2.825	6.524	11.406	20.824	13.871
6/15/2017 9:08	2940	49	2.825	6.522	11.404	20.826	13.87
6/15/2017 9:09	3000	50	2.823	6.519	11.401	20.829	13.84
6/15/2017 9:10	3060	51	2.822	6.515	11.397	20.833	13.877
6/15/2017 9:11	3120	52	2.821	6.513	11.395	20.835	13.825
6/15/2017 9:12	3180	53	2.819	6.51	11.392	20.838	13.821
6/15/2017 9:13	3240	54	2.818	6.507	11.389	20.841	13.843
6/15/2017 9:14	3300	55	2.817	6.503	11.385	20.845	13.84
6/15/2017 9:15	3360	56	2.813	6.495	11.377	20.853	13.829
6/15/2017 9:16	3420	57	2.815	6.499	11.381	20.849	13.854
6/15/2017 9:17	3480	58	2.817	6.505	11.387	20.843	13.832
6/15/2017 9:18	3540	59	2.817	6.505	11.387	20.843	13.848
6/15/2017 9:19	3600	60	2.814	6.498	11.38	20.85	13.857
6/15/2017 9:20	3660	61	2.814	6.496	11.378	20.852	13.879
6/15/2017 9:21	3720	62	2.814	6.497	11.379	20.851	13.841
6/15/2017 9:22	3780	63	2.81	6.488	11.37	20.86	13.848
6/15/2017 9:23	3840	64	2.81	6.488	11.37	20.86	13.84
6/15/2017 9:24	3900	65	2.81	6.488	11.37	20.86	13.844
6/15/2017 9:25	3960	66	2.809	6.486	11.368	20.862	13.869
6/15/2017 9:26	4020	67	2.808	6.484	11.366	20.864	13.832
6/15/2017 9:27	4080	68	2.807	6.482	11.364	20.866	13.835

6/15/2017 9:28	4140	69	2.806	6.479	11.361	20.869	13.841
6/15/2017 9:29	4200	70	2.804	6.475	11.357	20.873	13.867
6/15/2017 9:30	4260	71	2.808	6.484	11.366	20.864	13.837
6/15/2017 9:31	4320	72	2.809	6.485	11.367	20.863	13.847
6/15/2017 9:32	4380	73	2.806	6.479	11.361	20.869	13.861
6/15/2017 9:33	4440	74	2.806	6.478	11.36	20.87	13.857
6/15/2017 9:34	4500	75	2.803	6.472	11.354	20.876	13.854
6/15/2017 9:35	4560	76	2.806	6.479	11.361	20.869	13.859
6/15/2017 9:36	4620	77	2.802	6.471	11.353	20.877	13.846
6/15/2017 9:37	4680	78	2.804	6.473	11.355	20.875	13.862
6/15/2017 9:38	4740	79	2.805	6.477	11.359	20.871	13.858
6/15/2017 9:39	4800	80	2.804	6.475	11.357	20.873	13.862
6/15/2017 9:40	4860	81	2.803	6.473	11.355	20.875	13.87
6/15/2017 9:41	4920	82	2.804	6.474	11.356	20.874	13.874
6/15/2017 9:42	4980	83	2.804	6.474	11.356	20.874	13.878
6/15/2017 9:43	5040	84	2.8	6.465	11.347	20.883	13.863
6/15/2017 9:44	5100	85	2.803	6.472	11.354	20.876	13.793
6/15/2017 9:45	5160	86	2.802	6.469	11.351	20.879	13.823
6/15/2017 9:46	5220	87	2.801	6.468	11.35	20.88	13.816
6/15/2017 9:47	5280	88	2.802	6.471	11.353	20.877	13.806
6/15/2017 9:48	5340	89	2.801	6.468	11.35	20.88	13.838
6/15/2017 9:49	5400	90	2.8	6.465	11.347	20.883	13.851
6/15/2017 9:50	5460	91	2.799	6.464	11.346	20.884	13.829
6/15/2017 9:51	5520	92	2.799	6.463	11.345	20.885	13.821
6/15/2017 9:52	5580	93	2.798	6.462	11.344	20.886	13.862
6/15/2017 9:53	5640	94	2.801	6.468	11.35	20.88	13.845
6/15/2017 9:54	5700	95	2.797	6.459	11.341	20.889	13.846
6/15/2017 9:55	5760	96	2.799	6.464	11.346	20.884	13.859
6/15/2017 9:56	5820	97	2.798	6.461	11.343	20.887	13.846
6/15/2017 9:57	5880	98	2.798	6.461	11.343	20.887	13.857
6/15/2017 9:58	5940	99	2.798	6.461	11.343	20.887	13.851
6/15/2017 9:59	6000	100	2.797	6.459	11.341	20.889	13.844
6/15/2017 10:00	6060	101	2.797	6.457	11.339	20.891	13.861
6/15/2017 10:01	6120	102	2.796	6.455	11.337	20.893	13.873
6/15/2017 10:02	6180	103	2.796	6.455	11.337	20.893	13.861
6/15/2017 10:03	6240	104	2.797	6.459	11.341	20.889	13.848
6/15/2017 10:04	6300	105	2.794	6.452	11.334	20.896	13.887
6/15/2017 10:05	6360	106	2.796	6.457	11.339	20.891	13.864
6/15/2017 10:06	6420	107	2.797	6.459	11.341	20.889	13.862
6/15/2017 10:07	6480	108	2.796	6.456	11.338	20.892	13.85
6/15/2017 10:08	6540	109	2.793	6.449	11.331	20.899	13.864
6/15/2017 10:09	6600	110	2.793	6.45	11.332	20.898	13.876
6/15/2017 10:10	6660	111	2.796	6.456	11.338	20.892	13.854
6/15/2017 10:11	6720	112	2.793	6.45	11.332	20.898	13.848
6/15/2017 10:12	6780	113	2.795	6.453	11.335	20.895	13.858
6/15/2017 10:13	6840	114	2.796	6.457	11.339	20.891	13.865
6/15/2017 10:14	6900	115	2.796	6.456	11.338	20.892	13.884

6/15/2017 10:15	6960	116	2.793	6.45	11.332	20.898	13.863
6/15/2017 10:16	7020	117	2.794	6.45	11.332	20.898	13.856
6/15/2017 10:17	7080	118	2.791	6.445	11.327	20.903	13.867
6/15/2017 10:18	7140	119	2.794	6.452	11.334	20.896	13.872
6/15/2017 10:19	7200	120	2.795	6.453	11.335	20.895	13.863
6/15/2017 10:20	7260	121	2.793	6.45	11.332	20.898	13.864
6/15/2017 10:21	7320	122	2.792	6.447	11.329	20.901	13.852
6/15/2017 10:22	7380	123	2.792	6.446	11.328	20.902	13.872
6/15/2017 10:23	7440	124	2.792	6.446	11.328	20.902	13.854
6/15/2017 10:24	7500	125	2.793	6.448	11.33	20.9	13.819
6/15/2017 10:25	7560	126	2.793	6.448	11.33	20.9	13.838
6/15/2017 10:26	7620	127	2.794	6.451	11.333	20.897	13.854
6/15/2017 10:27	7680	128	2.794	6.451	11.333	20.897	13.844
6/15/2017 10:28	7740	129	2.793	6.448	11.33	20.9	13.857
6/15/2017 10:29	7800	130	2.791	6.445	11.327	20.903	13.851
6/15/2017 10:30	7860	131	2.792	6.446	11.328	20.902	13.829
6/15/2017 10:31	7920	132	2.791	6.445	11.327	20.903	13.833
6/15/2017 10:32	7980	133	2.791	6.444	11.326	20.904	13.884
6/15/2017 10:33	8040	134	2.79	6.443	11.325	20.905	13.842
6/15/2017 10:34	8100	135	2.792	6.447	11.329	20.901	13.853
6/15/2017 10:35	8160	136	2.794	6.45	11.332	20.898	13.865
6/15/2017 10:36	8220	137	2.786	6.434	11.316	20.914	13.87
6/15/2017 10:37	8280	138	2.791	6.445	11.327	20.903	13.876
6/15/2017 10:38	8340	139	2.789	6.439	11.321	20.909	13.881
6/15/2017 10:39	8400	140	2.789	6.439	11.321	20.909	13.863
6/15/2017 10:40	8460	141	2.79	6.443	11.325	20.905	13.87
6/15/2017 10:41	8520	142	2.791	6.444	11.326	20.904	13.854
6/15/2017 10:42	8580	143	2.789	6.44	11.322	20.908	13.868
6/15/2017 10:43	8640	144	2.791	6.445	11.327	20.903	13.835
6/15/2017 10:44	8700	145	2.788	6.438	11.32	20.91	13.832
6/15/2017 10:45	8760	146	2.788	6.438	11.32	20.91	13.824
6/15/2017 10:46	8820	147	2.787	6.435	11.317	20.913	13.868
6/15/2017 10:47	8880	148	2.791	6.444	11.326	20.904	13.868
6/15/2017 10:48	8940	149	2.789	6.439	11.321	20.909	13.847
6/15/2017 10:49	9000	150	2.789	6.441	11.323	20.907	13.856
6/15/2017 10:50	9060	151	2.789	6.439	11.321	20.909	13.846
6/15/2017 10:51	9120	152	2.789	6.439	11.321	20.909	13.853
6/15/2017 10:52	9180	153	2.787	6.435	11.317	20.913	13.848
6/15/2017 10:53	9240	154	2.787	6.436	11.318	20.912	13.854
6/15/2017 10:54	9300	155	2.787	6.435	11.317	20.913	13.834
6/15/2017 10:55	9360	156	2.787	6.435	11.317	20.913	13.856
6/15/2017 10:56	9420	157	2.788	6.437	11.319	20.911	13.842
6/15/2017 10:57	9480	158	2.79	6.441	11.323	20.907	13.838
6/15/2017 10:58	9540	159	2.787	6.435	11.317	20.913	13.86
6/15/2017 10:59	9600	160	2.789	6.439	11.321	20.909	13.844
6/15/2017 11:00	9660	161	2.787	6.434	11.316	20.914	13.879
6/15/2017 11:01	9720	162	2.785	6.431	11.313	20.917	13.871

6/15/2017 11:02	9780	163	2.784	6.429	11.311	20.919	13.881
6/15/2017 11:03	9840	164	2.789	6.439	11.321	20.909	13.871
6/15/2017 11:04	9900	165	2.786	6.432	11.314	20.916	13.867
6/15/2017 11:05	9960	166	2.787	6.436	11.318	20.912	13.858
6/15/2017 11:06	10020	167	2.786	6.434	11.316	20.914	13.875
6/15/2017 11:07	10080	168	2.786	6.434	11.316	20.914	13.881
6/15/2017 11:08	10140	169	2.787	6.435	11.317	20.913	13.868
6/15/2017 11:09	10200	170	2.785	6.432	11.314	20.916	13.873
6/15/2017 11:10	10260	171	2.785	6.431	11.313	20.917	13.889
6/15/2017 11:11	10320	172	2.784	6.429	11.311	20.919	13.869
6/15/2017 11:12	10380	173	2.786	6.433	11.315	20.915	13.868
6/15/2017 11:13	10440	174	2.786	6.434	11.316	20.914	13.889
6/15/2017 11:14	10500	175	2.785	6.43	11.312	20.918	13.865
6/15/2017 11:15	10560	176	2.786	6.433	11.315	20.915	13.873
6/15/2017 11:16	10620	177	2.785	6.43	11.312	20.918	13.869
6/15/2017 11:17	10680	178	2.786	6.434	11.316	20.914	13.899
6/15/2017 11:18	10740	179	2.787	6.435	11.317	20.913	13.888
6/15/2017 11:19	10800	180	2.785	6.43	11.312	20.918	13.864
6/15/2017 11:20	10860	181	2.788	6.436	11.318	20.912	13.864
6/15/2017 11:21	10920	182	2.785	6.43	11.312	20.918	13.859
6/15/2017 11:22	10980	183	2.784	6.427	11.309	20.921	13.891
6/15/2017 11:23	11040	184	2.785	6.43	11.312	20.918	13.887
6/15/2017 11:24	11100	185	2.786	6.434	11.316	20.914	13.891
6/15/2017 11:25	11160	186	2.784	6.428	11.31	20.92	13.887
6/15/2017 11:26	11220	187	2.783	6.426	11.308	20.922	13.875
6/15/2017 11:27	11280	188	2.785	6.43	11.312	20.918	13.865
6/15/2017 11:28	11340	189	2.782	6.424	11.306	20.924	13.868
6/15/2017 11:29	11400	190	2.783	6.425	11.307	20.923	13.896
6/15/2017 11:30	11460	191	2.781	6.422	11.304	20.926	13.859
6/15/2017 11:31	11520	192	2.784	6.429	11.311	20.919	13.86
6/15/2017 11:32	11580	193	2.781	6.422	11.304	20.926	13.877
6/15/2017 11:33	11640	194	2.784	6.428	11.31	20.92	13.889
6/15/2017 11:34	11700	195	2.783	6.425	11.307	20.923	13.89
6/15/2017 11:35	11760	196	2.784	6.428	11.31	20.92	13.908
6/15/2017 11:36	11820	197	2.782	6.423	11.305	20.925	13.903
6/15/2017 11:37	11880	198	2.785	6.43	11.312	20.918	13.891
6/15/2017 11:38	11940	199	2.782	6.423	11.305	20.925	13.874
6/15/2017 11:39	12000	200	2.784	6.429	11.311	20.919	13.896
6/15/2017 11:40	12060	201	2.781	6.421	11.303	20.927	13.892
6/15/2017 11:41	12120	202	2.782	6.423	11.305	20.925	13.907
6/15/2017 11:42	12180	203	2.784	6.428	11.31	20.92	13.849
6/15/2017 11:43	12240	204	2.784	6.427	11.309	20.921	13.88
6/15/2017 11:44	12300	205	2.784	6.428	11.31	20.92	13.859
6/15/2017 11:45	12360	206	2.784	6.428	11.31	20.92	13.883
6/15/2017 11:46	12420	207	2.781	6.42	11.302	20.928	13.892
6/15/2017 11:47	12480	208	2.782	6.425	11.307	20.923	13.884
6/15/2017 11:48	12540	209	2.782	6.424	11.306	20.924	13.878

6/15/2017 11:49	12600	210	2.784	6.427	11.309	20.921	13.886
6/15/2017 11:50	12660	211	2.783	6.427	11.309	20.921	13.871
6/15/2017 11:51	12720	212	2.783	6.426	11.308	20.922	13.865
6/15/2017 11:52	12780	213	2.786	6.432	11.314	20.916	13.909
6/15/2017 11:53	12840	214	2.782	6.423	11.305	20.925	13.879
6/15/2017 11:54	12900	215	2.783	6.427	11.309	20.921	13.903
6/15/2017 11:55	12960	216	2.781	6.422	11.304	20.926	13.911
6/15/2017 11:56	13020	217	2.782	6.425	11.307	20.923	13.89
6/15/2017 11:57	13080	218	2.782	6.424	11.306	20.924	13.889
6/15/2017 11:58	13140	219	2.781	6.421	11.303	20.927	13.909
6/15/2017 11:59	13200	220	2.779	6.418	11.3	20.93	13.895
6/15/2017 12:00	13260	221	2.784	6.428	11.31	20.92	13.9
6/15/2017 12:01	13320	222	2.781	6.421	11.303	20.927	13.892
6/15/2017 12:02	13380	223	2.781	6.421	11.303	20.927	13.923
6/15/2017 12:03	13440	224	2.782	6.425	11.307	20.923	13.877
6/15/2017 12:04	13500	225	2.779	6.418	11.3	20.93	13.875
6/15/2017 12:05	13560	226	2.781	6.421	11.303	20.927	13.923
6/15/2017 12:06	13620	227	2.785	6.43	11.312	20.918	13.896
6/15/2017 12:07	13680	228	2.782	6.423	11.305	20.925	13.868
6/15/2017 12:08	13740	229	2.78	6.419	11.301	20.929	13.899
6/15/2017 12:09	13800	230	2.779	6.418	11.3	20.93	13.897
6/15/2017 12:10	13860	231	2.783	6.426	11.308	20.922	13.861
6/15/2017 12:11	13920	232	2.781	6.421	11.303	20.927	13.886
6/15/2017 12:12	13980	233	2.778	6.414	11.296	20.934	13.881
6/15/2017 12:13	14040	234	2.782	6.424	11.306	20.924	13.854
6/15/2017 12:14	14100	235	2.783	6.426	11.308	20.922	13.886
6/15/2017 12:15	14160	236	2.78	6.418	11.3	20.93	13.865
6/15/2017 12:16	14220	237	2.78	6.419	11.301	20.929	13.873
6/15/2017 12:17	14280	238	2.782	6.423	11.305	20.925	13.882
6/15/2017 12:18	14340	239	2.78	6.42	11.302	20.928	13.878
6/15/2017 12:19	14400	240	2.779	6.418	11.3	20.93	13.874
6/15/2017 12:20	14460	241	2.78	6.418	11.3	20.93	13.868
6/15/2017 12:21	14520	242	2.778	6.415	11.297	20.933	13.871
6/15/2017 12:22	14580	243	2.781	6.42	11.302	20.928	13.872
6/15/2017 12:23	14640	244	2.778	6.415	11.297	20.933	13.862
6/15/2017 12:24	14700	245	2.78	6.418	11.3	20.93	13.874
6/15/2017 12:25	14760	246	2.782	6.423	11.305	20.925	13.872
6/15/2017 12:26	14820	247	2.779	6.416	11.298	20.932	13.873
6/15/2017 12:27	14880	248	2.778	6.415	11.297	20.933	13.903
6/15/2017 12:28	14940	249	2.78	6.418	11.3	20.93	13.876
6/15/2017 12:29	15000	250	2.779	6.416	11.298	20.932	13.846
6/15/2017 12:30	15060	251	2.777	6.412	11.294	20.936	13.848
6/15/2017 12:31	15120	252	2.78	6.419	11.301	20.929	13.839
6/15/2017 12:32	15180	253	2.778	6.415	11.297	20.933	13.836
6/15/2017 12:33	15240	254	2.779	6.416	11.298	20.932	13.84
6/15/2017 12:34	15300	255	2.78	6.418	11.3	20.93	13.826
6/15/2017 12:35	15360	256	2.778	6.415	11.297	20.933	13.847

6/15/2017 12:36	15420	257	2.78	6.418	11.3	20.93	13.832
6/15/2017 12:37	15480	258	2.782	6.424	11.306	20.924	13.836
6/15/2017 12:38	15540	259	2.78	6.418	11.3	20.93	13.832
6/15/2017 12:39	15600	260	2.781	6.421	11.303	20.927	13.823
6/15/2017 12:40	15660	261	2.78	6.419	11.301	20.929	13.835
6/15/2017 12:41	15720	262	2.78	6.418	11.3	20.93	13.862
6/15/2017 12:42	15780	263	2.776	6.409	11.291	20.939	13.836
6/15/2017 12:43	15840	264	2.778	6.414	11.296	20.934	13.843
6/15/2017 12:44	15900	265	2.779	6.417	11.299	20.931	13.841
6/15/2017 12:45	15960	266	2.767	6.389	11.271	20.959	13.87
6/15/2017 12:46	16020	267	2.778	6.414	11.296	20.934	13.853
6/15/2017 12:47	16080	268	2.778	6.415	11.297	20.933	13.868
6/15/2017 12:48	16140	269	2.779	6.416	11.298	20.932	13.866
6/15/2017 12:49	16200	270	2.778	6.413	11.295	20.935	13.86
6/15/2017 12:50	16260	271	2.778	6.414	11.296	20.934	13.882
6/15/2017 12:51	16320	272	2.777	6.412	11.294	20.936	13.873
6/15/2017 12:52	16380	273	2.78	6.418	11.3	20.93	13.868
6/15/2017 12:53	16440	274	2.778	6.414	11.296	20.934	13.86
6/15/2017 12:54	16500	275	2.775	6.407	11.289	20.941	13.855
6/15/2017 12:55	16560	276	2.777	6.413	11.295	20.935	13.867
6/15/2017 12:56	16620	277	2.775	6.408	11.29	20.94	13.847
6/15/2017 12:57	16680	278	2.779	6.417	11.299	20.931	13.84
6/15/2017 12:58	16740	279	2.776	6.409	11.291	20.939	13.87
6/15/2017 12:59	16800	280	2.779	6.416	11.298	20.932	13.848
6/15/2017 13:00	16860	281	2.776	6.409	11.291	20.939	13.851
6/15/2017 13:01	16920	282	2.773	6.404	11.286	20.944	13.837
6/15/2017 13:02	16980	283	2.778	6.414	11.296	20.934	13.835
6/15/2017 13:03	17040	284	2.774	6.406	11.288	20.942	13.846
6/15/2017 13:04	17100	285	2.777	6.413	11.295	20.935	13.829
6/15/2017 13:05	17160	286	2.776	6.41	11.292	20.938	13.848
6/15/2017 13:06	17220	287	2.777	6.411	11.293	20.937	13.847
6/15/2017 13:07	17280	288	2.776	6.411	11.293	20.937	13.87
6/15/2017 13:08	17340	289	2.777	6.411	11.293	20.937	13.857
6/15/2017 13:09	17400	290	2.776	6.41	11.292	20.938	13.862
6/15/2017 13:10	17460	291	2.776	6.411	11.293	20.937	13.861
6/15/2017 13:11	17520	292	2.774	6.404	11.286	20.944	13.892
6/15/2017 13:12	17580	293	2.776	6.41	11.292	20.938	13.895
6/15/2017 13:13	17640	294	2.775	6.408	11.29	20.94	13.875
6/15/2017 13:14	17700	295	2.774	6.405	11.287	20.943	13.897
6/15/2017 13:15	17760	296	2.777	6.411	11.293	20.937	13.881
6/15/2017 13:16	17820	297	2.776	6.411	11.293	20.937	13.899
6/15/2017 13:17	17880	298	2.779	6.416	11.298	20.932	13.884
6/15/2017 13:18	17940	299	2.78	6.42	11.302	20.928	13.883
6/15/2017 13:19	18000	300	2.782	6.424	11.306	20.924	13.887
6/15/2017 13:20	18060	301	2.786	6.433	11.315	20.915	13.857
6/15/2017 13:21	18120	302	2.79	6.442	11.324	20.906	13.891
6/15/2017 13:22	18180	303	2.798	6.459	11.341	20.889	13.826

6/15/2017 13:23	18240	304	2.806	6.479	11.361	20.869	13.857
6/15/2017 13:24	18300	305	2.813	6.495	11.377	20.853	13.83
6/15/2017 13:25	18360	306	2.818	6.506	11.388	20.842	13.839
6/15/2017 13:26	18420	307	2.827	6.528	11.41	20.82	13.854
6/15/2017 13:27	18480	308	2.834	6.543	11.425	20.805	13.826
6/15/2017 13:28	18540	309	2.838	6.554	11.436	20.794	13.857
6/15/2017 13:29	18600	310	2.847	6.574	11.456	20.774	13.841
6/15/2017 13:30	18660	311	2.856	6.594	11.476	20.754	13.873
6/15/2017 13:31	18720	312	2.858	6.6	11.482	20.748	13.855
6/15/2017 13:32	18780	313	2.865	6.615	11.497	20.733	13.858
6/15/2017 13:33	18840	314	2.873	6.633	11.515	20.715	13.879
6/15/2017 13:34	18900	315	2.877	6.643	11.525	20.705	13.891
6/15/2017 13:35	18960	316	2.885	6.661	11.543	20.687	13.899
6/15/2017 13:36	19020	317	2.892	6.677	11.559	20.671	13.892
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6/15/2017 13:38	19140	319	2.9	6.695	11.577	20.653	13.886
6/15/2017 13:39	19200	320	2.905	6.707	11.589	20.641	13.895
6/15/2017 13:40	19260	321	2.912	6.724	11.606	20.624	13.873
6/15/2017 13:41	19320	322	2.913	6.726	11.608	20.622	13.883
6/15/2017 13:42	19380	323	2.919	6.74	11.622	20.608	13.877
6/15/2017 13:43	19440	324	2.927	6.758	11.64	20.59	13.9
6/15/2017 13:44	19500	325	2.93	6.765	11.647	20.583	13.902
6/15/2017 13:45	19560	326	2.934	6.774	11.656	20.574	13.913
6/15/2017 13:46	19620	327	2.937	6.781	11.663	20.567	13.892
6/15/2017 13:47	19680	328	2.941	6.79	11.672	20.558	13.893
6/15/2017 13:48	19740	329	2.946	6.802	11.684	20.546	13.868
6/15/2017 13:49	19800	330	2.951	6.814	11.696	20.534	13.912
6/15/2017 13:50	19860	331	2.955	6.823	11.705	20.525	13.891
6/15/2017 13:51	19920	332	2.957	6.827	11.709	20.521	13.917
6/15/2017 13:52	19980	333	2.961	6.837	11.719	20.511	13.903
6/15/2017 13:53	20040	334	2.964	6.844	11.726	20.504	13.885
6/15/2017 13:54	20100	335	2.966	6.849	11.731	20.499	13.907
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6/15/2017 14:02	20580	343	2.997	6.921	11.803	20.427	13.901
6/15/2017 14:03	20640	344	2.999	6.925	11.807	20.423	13.903
6/15/2017 14:04	20700	345	3.002	6.931	11.813	20.417	13.917
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6/15/2017 14:06	20820	347	3.01	6.95	11.832	20.398	13.906
6/15/2017 14:07	20880	348	3.013	6.956	11.838	20.392	13.92
6/15/2017 14:08	20940	349	3.013	6.966	11.838	20.392	13.947
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6/15/2017 14:11	21120	352	3.025	6.984	11.866	20.364	13.925
6/15/2017 14:12	21180	353	3.03	6.995	11.877	20.353	13.91
6/15/2017 14:13	21240	354	3.03	6.997	11.879	20.351	13.934
6/15/2017 14:14	21300	355	3.03	6.996	11.878	20.352	13.947
6/15/2017 14:15	21360	356	3.034	7.006	11.888	20.342	13.908
6/15/2017 14:16	21420	357	3.035	7.009	11.891	20.339	13.929
6/15/2017 14:17	21480	358	3.039	7.017	11.899	20.331	13.909
6/15/2017 14:18	21540	359	3.042	7.023	11.905	20.325	13.925
6/15/2017 14:19	21600	360	3.044	7.028	11.91	20.32	13.91
6/15/2017 14:20	21660	361	3.045	7.03	11.912	20.318	13.923
6/15/2017 14:21	21720	362	3.048	7.037	11.919	20.311	13.917
6/15/2017 14:22	21780	363	3.05	7.043	11.925	20.305	13.93
6/15/2017 14:23	21840	364	3.053	7.049	11.931	20.299	13.933
6/15/2017 14:24	21900	365	3.053	7.05	11.932	20.298	13.92
6/15/2017 14:25	21960	366	3.055	7.053	11.935	20.295	13.929
6/15/2017 14:26	22020	367	3.057	7.059	11.941	20.289	13.921
6/15/2017 14:27	22080	368	3.059	7.064	11.946	20.284	13.912
6/15/2017 14:28	22140	369	3.064	7.074	11.956	20.274	13.912
6/15/2017 14:29	22200	370	3.062	7.07	11.952	20.278	13.908
6/15/2017 14:30	22260	371	3.063	7.071	11.953	20.277	13.898
6/15/2017 14:31	22320	372	3.063	7.072	11.954	20.276	13.888
6/15/2017 14:32	22380	373	3.067	7.081	11.963	20.267	13.914
6/15/2017 14:33	22440	374	3.067	7.082	11.964	20.266	13.914
6/15/2017 14:34	22500	375	3.067	7.081	11.963	20.267	13.889
6/15/2017 14:35	22560	376	3.068	7.083	11.965	20.265	13.934
6/15/2017 14:36	22620	377	3.067	7.083	11.965	20.265	13.912
6/15/2017 14:37	22680	378	3.069	7.086	11.968	20.262	13.929
6/15/2017 14:38	22740	379	3.07	7.087	11.969	20.261	13.918
6/15/2017 14:39	22800	380	3.075	7.1	11.982	20.248	13.928
6/15/2017 14:40	22860	381	3.072	7.094	11.976	20.254	13.923
6/15/2017 14:41	22920	382	3.076	7.102	11.984	20.246	13.898
6/15/2017 14:42	22980	383	3.072	7.093	11.975	20.255	13.917
6/15/2017 14:43	23040	384	3.074	7.098	11.98	20.25	13.881
6/15/2017 14:44	23100	385	3.075	7.101	11.983	20.247	13.911
6/15/2017 14:45	23160	386	3.078	7.108	11.99	20.24	13.896
6/15/2017 14:46	23220	387	3.077	7.105	11.987	20.243	13.908
6/15/2017 14:47	23280	388	3.076	7.103	11.985	20.245	13.906
6/15/2017 14:48	23340	389	3.081	7.113	11.995	20.235	13.884
6/15/2017 14:49	23400	390	3.081	7.113	11.995	20.235	13.92
6/15/2017 14:50	23460	391	3.078	7.108	11.99	20.24	13.915
6/15/2017 14:51	23520	392	3.082	7.115	11.997	20.233	13.92
6/15/2017 14:52	23580	393	3.082	7.115	11.997	20.233	13.89
6/15/2017 14:53	23640	394	3.08	7.112	11.994	20.236	13.917
6/15/2017 14:54	23700	395	3.081	7.115	11.997	20.233	13.905
6/15/2017 14:55	23760	396	3.084	7.12	12.002	20.228	13.901
6/15/2017 14:56	23820	397	3.084	7.12	12.002	20.228	13.905

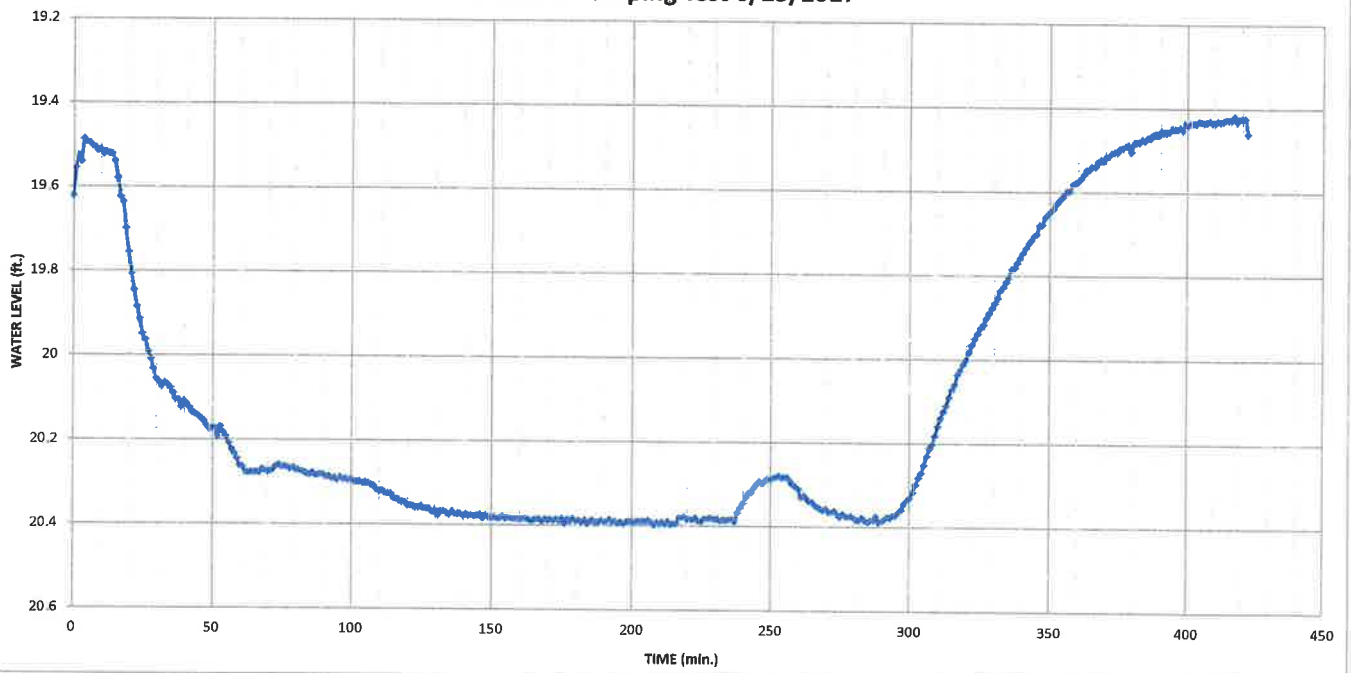
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6/15/2017 14:58	23940	399	3.086	7.126	12.008	20.222	13.896
6/15/2017 14:59	24000	400	3.089	7.132	12.014	20.216	13.916
6/15/2017 15:00	24060	401	3.084	7.12	12.002	20.228	13.928
6/15/2017 15:01	24120	402	3.085	7.124	12.006	20.224	13.912
6/15/2017 15:02	24180	403	3.086	7.126	12.008	20.222	13.912
6/15/2017 15:03	24240	404	3.086	7.124	12.006	20.224	13.922
6/15/2017 15:04	24300	405	3.091	7.137	12.019	20.211	13.944
6/15/2017 15:05	24360	406	3.09	7.135	12.017	20.213	13.912
6/15/2017 15:06	24420	407	3.089	7.133	12.015	20.215	13.901
6/15/2017 15:07	24480	408	3.087	7.129	12.011	20.219	13.895
6/15/2017 15:08	24540	409	3.093	7.141	12.023	20.207	13.912
6/15/2017 15:09	24600	410	3.089	7.132	12.014	20.216	13.921
6/15/2017 15:10	24660	411	3.088	7.13	12.012	20.218	13.899
6/15/2017 15:11	24720	412	3.09	7.135	12.017	20.213	13.898
6/15/2017 15:12	24780	413	3.088	7.13	12.012	20.218	13.912
6/15/2017 15:13	24840	414	3.088	7.131	12.013	20.217	13.92
6/15/2017 15:14	24900	415	3.092	7.14	12.022	20.208	13.934
6/15/2017 15:15	24960	416	3.088	7.13	12.012	20.218	13.906
6/15/2017 15:16	25020	417	3.087	7.128	12.01	20.22	13.894
6/15/2017 15:17	25080	418	3.09	7.134	12.016	20.214	13.906
6/15/2017 15:18	25140	419	3.091	7.137	12.019	20.211	13.921
6/15/2017 15:19	25200	420	3.087	7.128	12.01	20.22	13.916
6/15/2017 15:20	25260	421	3.086	7.125	12.007	20.223	13.917
6/15/2017 15:21	25320	422	3.093	7.141	12.023	20.207	13.909

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Project	Orange County Landfill	Dates	6/15/2017
Location	New Hampton, NY	Pumping Well	RW-17-1
Well No.	PZ-17-1	Measuring Point	Top of PVC Riser

Date	Time	Water Level (Feet)	Pumping Rate (GPM)	Remarks
6/15/2017	8:30	19.62	0.0	Before Pumping Test
6/15/2017	8:38	---	3.0	Pump Test Start
6/15/2017	8:42	19.84	2.0	
6/15/2017	8:46	---	0.5	
6/15/2017	8:50	20.2	0.5	
6/15/2017	8:55	20.33	0.5	
6/15/2017	9:03	20.43	0.5	
6/15/2017	9:15	20.5	0.5	
6/15/2017	9:37	20.6	0.5	
6/15/2017	10:14	20.65	0.5	
6/15/2017	10:35	20.72	0.5	
6/15/2017	11:13	20.74	0.5	
6/15/2017	11:45	20.75	0.5	
6/15/2017	12:01	20.74	0.5	
6/15/2017	12:21	20.73	0.5	
6/15/2017	12:45	20.69	0.5	
6/15/2017	13:05	---	0.0	
6/15/2017	13:13	20.75	0.0	
6/15/2017	14:09	20.05	0.0	
6/15/2017	14:45	19.85	0.0	
6/15/2017	15:34	19.95	0.0	Transducer Stop

PZ-17-1 Pumping Test 6/15/2017



Report Date: 6/16/2017 11:37
Report User Name: spauldingj
Report Computer N LAPTOP04
Application: WinSitu.exe
Application Version 5.6.25.0

Log File Properties

File Name PZ-17-2(Pump)_2017-06-15_15-22-46-851.wsl
Create Date 6/15/2017 15:22

Device Properties

Device Level TROLL 700
Site Orange County Landfill
Device Name
Serial Number 428981
Firmware Version 3.03
Hardware Version 5
Device Address 1
Device Comm Cfg 19200
Used Memory 3
Used Battery 11

8 Even

1

Log Configuration

Log Name PZ-17-2(Pump)
Created By Spauldingj
Computer Name LAPTOP04
Application WinSitu.exe
Application Version 5.6.25.0
Create Date 6/15/2017 8:19:44 AM Eastern Daylight Time
Log Setup Time Zone Eastern Daylight Time
Notes Size(bytes) 4096
Overwrite when full Disabled
Scheduled Start Time Manual Start
Scheduled Stop Time No Stop Time
Type Linear
Interval Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode
Specific Gravity Depth 0.999

Other Log Settings

Depth of Probe: 7.2851 (ft)

6/15/2017 8:41	1320	22	3.053	7.049	11.931	20.299	13.898
6/15/2017 8:42	1380	23	3.021	6.975	11.857	20.373	13.873
6/15/2017 8:43	1440	24	2.984	6.89	11.772	20.458	13.828
6/15/2017 8:44	1500	25	2.957	6.827	11.709	20.521	13.857
6/15/2017 8:45	1560	26	2.934	6.775	11.657	20.573	13.86
6/15/2017 8:46	1620	27	2.916	6.733	11.615	20.615	13.848
6/15/2017 8:47	1680	28	2.903	6.702	11.584	20.646	13.845
6/15/2017 8:48	1740	29	2.89	6.673	11.555	20.675	13.84
6/15/2017 8:49	1800	30	2.882	6.654	11.536	20.694	13.841
6/15/2017 8:50	1860	31	2.877	6.642	11.524	20.706	13.81
6/15/2017 8:51	1920	32	2.867	6.621	11.503	20.727	13.826
6/15/2017 8:52	1980	33	2.864	6.613	11.495	20.735	13.835
6/15/2017 8:53	2040	34	2.856	6.594	11.476	20.754	13.832
6/15/2017 8:54	2100	35	2.853	6.588	11.47	20.76	13.826
6/15/2017 8:55	2160	36	2.851	6.583	11.465	20.765	13.862
6/15/2017 8:56	2220	37	2.846	6.57	11.452	20.778	13.813
6/15/2017 8:57	2280	38	2.844	6.567	11.449	20.781	13.806
6/15/2017 8:58	2340	39	2.842	6.562	11.444	20.786	13.846
6/15/2017 8:59	2400	40	2.839	6.554	11.436	20.794	13.817
6/15/2017 9:00	2460	41	2.838	6.552	11.434	20.796	13.825
6/15/2017 9:01	2520	42	2.835	6.547	11.429	20.801	13.837
6/15/2017 9:02	2580	43	2.835	6.547	11.429	20.801	13.837
6/15/2017 9:03	2640	44	2.832	6.539	11.421	20.809	13.834
6/15/2017 9:04	2700	45	2.83	6.534	11.416	20.814	13.833
6/15/2017 9:05	2760	46	2.829	6.533	11.415	20.815	13.871
6/15/2017 9:06	2820	47	2.829	6.532	11.414	20.816	13.874
6/15/2017 9:07	2880	48	2.825	6.524	11.406	20.824	13.871
6/15/2017 9:08	2940	49	2.825	6.522	11.404	20.826	13.87
6/15/2017 9:09	3000	50	2.823	6.519	11.401	20.829	13.84
6/15/2017 9:10	3060	51	2.822	6.515	11.397	20.833	13.877
6/15/2017 9:11	3120	52	2.821	6.513	11.395	20.835	13.825
6/15/2017 9:12	3180	53	2.819	6.51	11.392	20.838	13.821
6/15/2017 9:13	3240	54	2.818	6.507	11.389	20.841	13.843
6/15/2017 9:14	3300	55	2.817	6.503	11.385	20.845	13.84
6/15/2017 9:15	3360	56	2.813	6.495	11.377	20.853	13.829
6/15/2017 9:16	3420	57	2.815	6.499	11.381	20.849	13.854
6/15/2017 9:17	3480	58	2.817	6.505	11.387	20.843	13.832
6/15/2017 9:18	3540	59	2.817	6.505	11.387	20.843	13.848
6/15/2017 9:19	3600	60	2.814	6.498	11.38	20.85	13.857
6/15/2017 9:20	3660	61	2.814	6.496	11.378	20.852	13.879
6/15/2017 9:21	3720	62	2.814	6.497	11.379	20.851	13.841
6/15/2017 9:22	3780	63	2.81	6.488	11.37	20.86	13.848
6/15/2017 9:23	3840	64	2.81	6.488	11.37	20.86	13.84
6/15/2017 9:24	3900	65	2.81	6.488	11.37	20.86	13.844
6/15/2017 9:25	3960	66	2.809	6.486	11.368	20.862	13.869
6/15/2017 9:26	4020	67	2.808	6.484	11.366	20.864	13.832
6/15/2017 9:27	4080	68	2.807	6.482	11.364	20.866	13.835

6/15/2017 10:15	6960	116	2.793	6.45	11.332	20.898	13.863
6/15/2017 10:16	7020	117	2.794	6.45	11.332	20.898	13.856
6/15/2017 10:17	7080	118	2.791	6.445	11.327	20.903	13.867
6/15/2017 10:18	7140	119	2.794	6.452	11.334	20.896	13.872
6/15/2017 10:19	7200	120	2.795	6.453	11.335	20.895	13.863
6/15/2017 10:20	7260	121	2.793	6.45	11.332	20.898	13.864
6/15/2017 10:21	7320	122	2.792	6.447	11.329	20.901	13.852
6/15/2017 10:22	7380	123	2.792	6.446	11.328	20.902	13.872
6/15/2017 10:23	7440	124	2.792	6.446	11.328	20.902	13.854
6/15/2017 10:24	7500	125	2.793	6.448	11.33	20.9	13.819
6/15/2017 10:25	7560	126	2.793	6.448	11.33	20.9	13.838
6/15/2017 10:26	7620	127	2.794	6.451	11.333	20.897	13.854
6/15/2017 10:27	7680	128	2.794	6.451	11.333	20.897	13.844
6/15/2017 10:28	7740	129	2.793	6.448	11.33	20.9	13.857
6/15/2017 10:29	7800	130	2.791	6.445	11.327	20.903	13.851
6/15/2017 10:30	7860	131	2.792	6.446	11.328	20.902	13.829
6/15/2017 10:31	7920	132	2.791	6.445	11.327	20.903	13.833
6/15/2017 10:32	7980	133	2.791	6.444	11.326	20.904	13.884
6/15/2017 10:33	8040	134	2.79	6.443	11.325	20.905	13.842
6/15/2017 10:34	8100	135	2.792	6.447	11.329	20.901	13.853
6/15/2017 10:35	8160	136	2.794	6.45	11.332	20.898	13.865
6/15/2017 10:36	8220	137	2.786	6.434	11.316	20.914	13.87
6/15/2017 10:37	8280	138	2.791	6.445	11.327	20.903	13.876
6/15/2017 10:38	8340	139	2.789	6.439	11.321	20.909	13.881
6/15/2017 10:39	8400	140	2.789	6.439	11.321	20.909	13.863
6/15/2017 10:40	8460	141	2.79	6.443	11.325	20.905	13.87
6/15/2017 10:41	8520	142	2.791	6.444	11.326	20.904	13.854
6/15/2017 10:42	8580	143	2.789	6.44	11.322	20.908	13.868
6/15/2017 10:43	8640	144	2.791	6.445	11.327	20.903	13.835
6/15/2017 10:44	8700	145	2.788	6.438	11.32	20.91	13.832
6/15/2017 10:45	8760	146	2.788	6.438	11.32	20.91	13.824
6/15/2017 10:46	8820	147	2.787	6.435	11.317	20.913	13.868
6/15/2017 10:47	8880	148	2.791	6.444	11.326	20.904	13.868
6/15/2017 10:48	8940	149	2.789	6.439	11.321	20.909	13.847
6/15/2017 10:49	9000	150	2.789	6.441	11.323	20.907	13.856
6/15/2017 10:50	9060	151	2.789	6.439	11.321	20.909	13.846
6/15/2017 10:51	9120	152	2.789	6.439	11.321	20.909	13.853
6/15/2017 10:52	9180	153	2.787	6.435	11.317	20.913	13.848
6/15/2017 10:53	9240	154	2.787	6.436	11.318	20.912	13.854
6/15/2017 10:54	9300	155	2.787	6.435	11.317	20.913	13.834
6/15/2017 10:55	9360	156	2.787	6.435	11.317	20.913	13.856
6/15/2017 10:56	9420	157	2.788	6.437	11.319	20.911	13.842
6/15/2017 10:57	9480	158	2.79	6.441	11.323	20.907	13.838
6/15/2017 10:58	9540	159	2.787	6.435	11.317	20.913	13.86
6/15/2017 10:59	9600	160	2.789	6.439	11.321	20.909	13.844
6/15/2017 11:00	9660	161	2.787	6.434	11.316	20.914	13.879
6/15/2017 11:01	9720	162	2.785	6.431	11.313	20.917	13.871

6/15/2017 11:49	12600	210	2.784	6.427	11.309	20.921	13.886
6/15/2017 11:50	12660	211	2.783	6.427	11.309	20.921	13.871
6/15/2017 11:51	12720	212	2.783	6.426	11.308	20.922	13.865
6/15/2017 11:52	12780	213	2.786	6.432	11.314	20.916	13.909
6/15/2017 11:53	12840	214	2.782	6.423	11.305	20.925	13.879
6/15/2017 11:54	12900	215	2.783	6.427	11.309	20.921	13.903
6/15/2017 11:55	12960	216	2.781	6.422	11.304	20.926	13.911
6/15/2017 11:56	13020	217	2.782	6.425	11.307	20.923	13.89
6/15/2017 11:57	13080	218	2.782	6.424	11.306	20.924	13.889
6/15/2017 11:58	13140	219	2.781	6.421	11.303	20.927	13.909
6/15/2017 11:59	13200	220	2.779	6.418	11.3	20.93	13.895
6/15/2017 12:00	13260	221	2.784	6.428	11.31	20.92	13.9
6/15/2017 12:01	13320	222	2.781	6.421	11.303	20.927	13.892
6/15/2017 12:02	13380	223	2.781	6.421	11.303	20.927	13.923
6/15/2017 12:03	13440	224	2.782	6.425	11.307	20.923	13.877
6/15/2017 12:04	13500	225	2.779	6.418	11.3	20.93	13.875
6/15/2017 12:05	13560	226	2.781	6.421	11.303	20.927	13.923
6/15/2017 12:06	13620	227	2.785	6.43	11.312	20.918	13.896
6/15/2017 12:07	13680	228	2.782	6.423	11.305	20.925	13.868
6/15/2017 12:08	13740	229	2.78	6.419	11.301	20.929	13.899
6/15/2017 12:09	13800	230	2.779	6.418	11.3	20.93	13.897
6/15/2017 12:10	13860	231	2.783	6.426	11.308	20.922	13.861
6/15/2017 12:11	13920	232	2.781	6.421	11.303	20.927	13.886
6/15/2017 12:12	13980	233	2.778	6.414	11.296	20.934	13.881
6/15/2017 12:13	14040	234	2.782	6.424	11.306	20.924	13.854
6/15/2017 12:14	14100	235	2.783	6.426	11.308	20.922	13.886
6/15/2017 12:15	14160	236	2.78	6.418	11.3	20.93	13.865
6/15/2017 12:16	14220	237	2.78	6.419	11.301	20.929	13.873
6/15/2017 12:17	14280	238	2.782	6.423	11.305	20.925	13.882
6/15/2017 12:18	14340	239	2.78	6.42	11.302	20.928	13.878
6/15/2017 12:19	14400	240	2.779	6.418	11.3	20.93	13.874
6/15/2017 12:20	14460	241	2.78	6.418	11.3	20.93	13.868
6/15/2017 12:21	14520	242	2.778	6.415	11.297	20.933	13.871
6/15/2017 12:22	14580	243	2.781	6.42	11.302	20.928	13.872
6/15/2017 12:23	14640	244	2.778	6.415	11.297	20.933	13.862
6/15/2017 12:24	14700	245	2.78	6.418	11.3	20.93	13.874
6/15/2017 12:25	14760	246	2.782	6.423	11.305	20.925	13.872
6/15/2017 12:26	14820	247	2.779	6.416	11.298	20.932	13.873
6/15/2017 12:27	14880	248	2.778	6.415	11.297	20.933	13.903
6/15/2017 12:28	14940	249	2.78	6.418	11.3	20.93	13.876
6/15/2017 12:29	15000	250	2.779	6.416	11.298	20.932	13.846
6/15/2017 12:30	15060	251	2.777	6.412	11.294	20.936	13.848
6/15/2017 12:31	15120	252	2.78	6.419	11.301	20.929	13.839
6/15/2017 12:32	15180	253	2.778	6.415	11.297	20.933	13.836
6/15/2017 12:33	15240	254	2.779	6.416	11.298	20.932	13.84
6/15/2017 12:34	15300	255	2.78	6.418	11.3	20.93	13.826
6/15/2017 12:35	15360	256	2.778	6.415	11.297	20.933	13.847

6/15/2017 13:23	18240	304	2.806	6.479	11.361	20.869	13.857
6/15/2017 13:24	18300	305	2.813	6.495	11.377	20.853	13.83
6/15/2017 13:25	18360	306	2.818	6.506	11.388	20.842	13.839
6/15/2017 13:26	18420	307	2.827	6.528	11.41	20.82	13.854
6/15/2017 13:27	18480	308	2.834	6.543	11.425	20.805	13.826
6/15/2017 13:28	18540	309	2.838	6.554	11.436	20.794	13.857
6/15/2017 13:29	18600	310	2.847	6.574	11.456	20.774	13.841
6/15/2017 13:30	18660	311	2.856	6.594	11.476	20.754	13.873
6/15/2017 13:31	18720	312	2.858	6.6	11.482	20.748	13.855
6/15/2017 13:32	18780	313	2.865	6.615	11.497	20.733	13.858
6/15/2017 13:33	18840	314	2.873	6.633	11.515	20.715	13.879
6/15/2017 13:34	18900	315	2.877	6.643	11.525	20.705	13.891
6/15/2017 13:35	18960	316	2.885	6.661	11.543	20.687	13.899
6/15/2017 13:36	19020	317	2.892	6.677	11.559	20.671	13.892
6/15/2017 13:37	19080	318	2.896	6.687	11.569	20.661	13.882
6/15/2017 13:38	19140	319	2.9	6.695	11.577	20.653	13.886
6/15/2017 13:39	19200	320	2.905	6.707	11.589	20.641	13.895
6/15/2017 13:40	19260	321	2.912	6.724	11.606	20.624	13.873
6/15/2017 13:41	19320	322	2.913	6.726	11.608	20.622	13.883
6/15/2017 13:42	19380	323	2.919	6.74	11.622	20.608	13.877
6/15/2017 13:43	19440	324	2.927	6.758	11.64	20.59	13.9
6/15/2017 13:44	19500	325	2.93	6.765	11.647	20.583	13.902
6/15/2017 13:45	19560	326	2.934	6.774	11.656	20.574	13.913
6/15/2017 13:46	19620	327	2.937	6.781	11.663	20.567	13.892
6/15/2017 13:47	19680	328	2.941	6.79	11.672	20.558	13.893
6/15/2017 13:48	19740	329	2.946	6.802	11.684	20.546	13.868
6/15/2017 13:49	19800	330	2.951	6.814	11.696	20.534	13.912
6/15/2017 13:50	19860	331	2.955	6.823	11.705	20.525	13.891
6/15/2017 13:51	19920	332	2.957	6.827	11.709	20.521	13.917
6/15/2017 13:52	19980	333	2.961	6.837	11.719	20.511	13.903
6/15/2017 13:53	20040	334	2.964	6.844	11.726	20.504	13.885
6/15/2017 13:54	20100	335	2.966	6.849	11.731	20.499	13.907
6/15/2017 13:55	20160	336	2.971	6.861	11.743	20.487	13.892
6/15/2017 13:56	20220	337	2.972	6.863	11.745	20.485	13.891
6/15/2017 13:57	20280	338	2.979	6.878	11.76	20.47	13.9
6/15/2017 13:58	20340	339	2.984	6.889	11.771	20.459	13.891
6/15/2017 13:59	20400	340	2.985	6.891	11.773	20.457	13.881
6/15/2017 14:00	20460	341	2.988	6.899	11.781	20.449	13.904
6/15/2017 14:01	20520	342	2.993	6.912	11.794	20.436	13.913
6/15/2017 14:02	20580	343	2.997	6.921	11.803	20.427	13.901
6/15/2017 14:03	20640	344	2.999	6.925	11.807	20.423	13.903
6/15/2017 14:04	20700	345	3.002	6.931	11.813	20.417	13.917
6/15/2017 14:05	20760	346	3.008	6.944	11.826	20.404	13.888
6/15/2017 14:06	20820	347	3.01	6.95	11.832	20.398	13.906
6/15/2017 14:07	20880	348	3.013	6.956	11.838	20.392	13.92
6/15/2017 14:08	20940	349	3.013	6.956	11.838	20.392	13.947
6/15/2017 14:09	21000	350	3.017	6.965	11.848	20.382	13.914

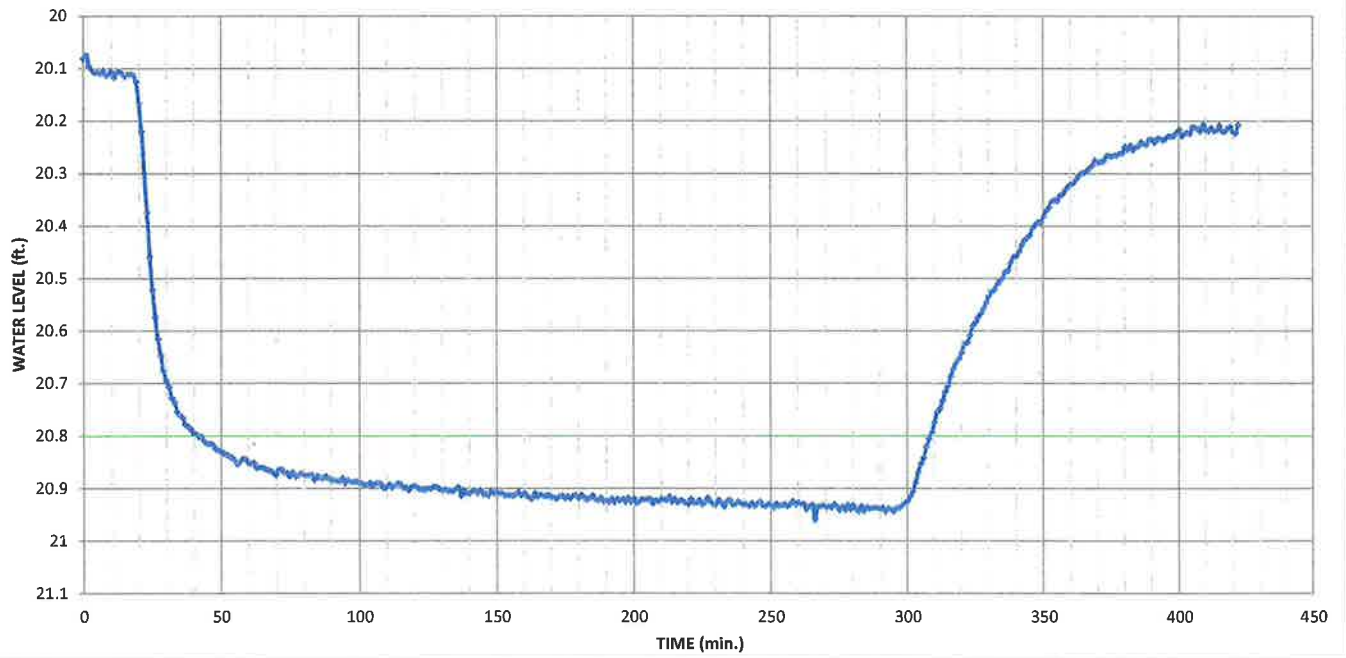
6/15/2017 14:57	23880	398	3.083	7.12	12.002	20.228	13.923
6/15/2017 14:58	23940	399	3.086	7.126	12.008	20.222	13.896
6/15/2017 14:59	24000	400	3.089	7.132	12.014	20.216	13.916
6/15/2017 15:00	24060	401	3.084	7.12	12.002	20.228	13.928
6/15/2017 15:01	24120	402	3.085	7.124	12.006	20.224	13.912
6/15/2017 15:02	24180	403	3.086	7.126	12.008	20.222	13.912
6/15/2017 15:03	24240	404	3.086	7.124	12.006	20.224	13.922
6/15/2017 15:04	24300	405	3.091	7.137	12.019	20.211	13.944
6/15/2017 15:05	24360	406	3.09	7.135	12.017	20.213	13.912
6/15/2017 15:06	24420	407	3.089	7.133	12.015	20.215	13.901
6/15/2017 15:07	24480	408	3.087	7.129	12.011	20.219	13.895
6/15/2017 15:08	24540	409	3.093	7.141	12.023	20.207	13.912
6/15/2017 15:09	24600	410	3.089	7.132	12.014	20.216	13.921
6/15/2017 15:10	24660	411	3.088	7.13	12.012	20.218	13.899
6/15/2017 15:11	24720	412	3.09	7.135	12.017	20.213	13.898
6/15/2017 15:12	24780	413	3.088	7.13	12.012	20.218	13.912
6/15/2017 15:13	24840	414	3.088	7.131	12.013	20.217	13.92
6/15/2017 15:14	24900	415	3.092	7.14	12.022	20.208	13.934
6/15/2017 15:15	24960	416	3.088	7.13	12.012	20.218	13.906
6/15/2017 15:16	25020	417	3.087	7.128	12.01	20.22	13.894
6/15/2017 15:17	25080	418	3.09	7.134	12.016	20.214	13.906
6/15/2017 15:18	25140	419	3.091	7.137	12.019	20.211	13.921
6/15/2017 15:19	25200	420	3.087	7.128	12.01	20.22	13.916
6/15/2017 15:20	25260	421	3.086	7.125	12.007	20.223	13.917
6/15/2017 15:21	25320	422	3.093	7.141	12.023	20.207	13.909

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Project	<u>Orange County Landfill</u>	Dates	<u>6/15/2017</u>
Location	<u>New Hampton, NY</u>	Pumping Well	<u>RW-17-1</u>
Well No.	<u>PZ-17-2</u>	Measuring Point	<u>Top of PVC Riser</u>

Date	Time	Water Level (Feet)	Pumping Rate (GPM)	Remarks
6/15/2017	8:30	20.08	0.0	Before Pumping Test
6/15/2017	8:38	---	3.0	Pump Test Start
6/15/2017	8:42	20.4	2.0	
6/15/2017	8:46	---	0.5	
6/15/2017	8:50	20.69	0.5	
6/15/2017	8:55	20.76	0.5	
6/15/2017	9:03	20.79	0.5	
6/15/2017	9:15	20.84	0.5	
6/15/2017	9:37	20.88	0.5	
6/15/2017	10:14	20.9	0.5	
6/15/2017	10:35	20.9	0.5	
6/15/2017	11:11	20.9	0.5	
6/15/2017	11:44	20.91	0.5	
6/15/2017	12:00	20.91	0.5	
6/15/2017	12:22	20.91	0.5	
6/15/2017	12:45	20.92	0.5	
6/15/2017	13:05	---	0.0	
6/15/2017	13:13	20.91	0.0	
6/15/2017	14:08	20.36	0.0	
6/15/2017	14:43	20.21	0.0	
6/15/2017	15:32	20.28	0.0	Transducer Stop

PZ-17-2 Pumping Test 6/15/2017



Report Date: 6/16/2017 11:37
Report User Name: spauldingj
Report Computer: NLAPTOP04
Application: WinSitu.exe
Application Version 5.6.25.0

Log File Properties

File Name PZ-17-2(Pump)_2017-06-15_15-22-46-851.wsl
Create Date 6/15/2017 15:22

Device Properties

Device	Level TROLL 700
Site	Orange County Landfill
Device Name	
Serial Number	428981
Firmware Version	3.03
Hardware Version	5
Device Address	1
Device Comm Cfg	19200
Used Memory	3
Used Battery	11

8 Even

Log Configuration

Log Name	PZ-17-2(Pump)
Created By	SpauldingJ
Computer Name	LAPTOP04
Application	WinSitu.exe
Application Version	5.6.25.0
Create Date	6/15/2017 8:19:44 AM Eastern Daylight Time
Log Setup Time Zone	Eastern Daylight Time
Notes Size(bytes)	4096
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop Time	No Stop Time
Type	Linear
Interval	Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Depth
Specific Gravity	0.999

Other Log Settings

Depth of Probe: 7.2851 (ft)

Head Pressure: 3.15513 (PSI)
Temperature: 13.8844 (C)

Log Notes:

Date and Time Note
6/15/2017 8:19 Used Battery: 11% Used Memory: 4% User Name: SpauldingJ
6/15/2017 8:19 Manual Start Command
6/15/2017 15:22 Suspend Command
6/15/2017 15:22 Log Download - Used Battery: 11% Used Memory: 4% User Name: SpauldingJ

Log Data:
Record Count 423

Sensors 1

428981 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

Sensor: Pres(G) 35ft SN#: 428981				Sensor: Pres(G) 35ft SN#: 428981				Sensor: Pres(G) 35ft SN#: 428981			
Pressure (PSI)				Depth (ft)				Water Level (ft)			
Calculations				Temperature (C)							
Date and Time	Elapsed Time Seconds	Minutes									
6/15/2017 8:19	0	0	3.148	7.268	12.15	20.08	13.907				
6/15/2017 8:20	60	1	3.151	7.275	12.157	20.073	13.888				
6/15/2017 8:21	120	2	3.142	7.254	12.136	20.094	13.916				
6/15/2017 8:22	180	3	3.138	7.246	12.128	20.102	13.872				
6/15/2017 8:23	240	4	3.136	7.241	12.123	20.107	13.87				
6/15/2017 8:24	300	5	3.137	7.242	12.124	20.106	13.851				
6/15/2017 8:25	360	6	3.135	7.239	12.121	20.109	13.869				
6/15/2017 8:26	420	7	3.138	7.245	12.127	20.103	13.839				
6/15/2017 8:27	480	8	3.134	7.236	12.118	20.112	13.854				
6/15/2017 8:28	540	9	3.135	7.238	12.12	20.11	13.875				
6/15/2017 8:29	600	10	3.137	7.244	12.126	20.104	13.868				
6/15/2017 8:30	660	11	3.132	7.232	12.114	20.116	13.875				
6/15/2017 8:31	720	12	3.136	7.241	12.123	20.107	13.901				
6/15/2017 8:32	780	13	3.137	7.243	12.125	20.105	13.872				
6/15/2017 8:33	840	14	3.135	7.239	12.121	20.109	13.895				
6/15/2017 8:34	900	15	3.133	7.234	12.116	20.114	13.858				
6/15/2017 8:35	960	16	3.135	7.238	12.12	20.11	13.906				
6/15/2017 8:36	1020	17	3.135	7.238	12.12	20.11	13.878				
6/15/2017 8:37	1080	18	3.134	7.237	12.119	20.111	13.909				
6/15/2017 8:38	1140	19	3.128	7.224	12.106	20.124	13.89				
6/15/2017 8:39	1200	20	3.111	7.183	12.065	20.165	13.869				
6/15/2017 8:40	1260	21	3.087	7.129	12.011	20.219	13.874				

6/15/2017 8:41	1320	22	3.053	7.049	11.931	20.299	13.898
6/15/2017 8:42	1380	23	3.021	6.975	11.857	20.373	13.873
6/15/2017 8:43	1440	24	2.984	6.89	11.772	20.458	13.828
6/15/2017 8:44	1500	25	2.957	6.827	11.709	20.521	13.857
6/15/2017 8:45	1560	26	2.934	6.775	11.657	20.573	13.86
6/15/2017 8:46	1620	27	2.916	6.733	11.615	20.615	13.848
6/15/2017 8:47	1680	28	2.903	6.702	11.584	20.646	13.845
6/15/2017 8:48	1740	29	2.89	6.673	11.555	20.675	13.84
6/15/2017 8:49	1800	30	2.882	6.654	11.536	20.694	13.841
6/15/2017 8:50	1860	31	2.877	6.642	11.524	20.706	13.81
6/15/2017 8:51	1920	32	2.867	6.621	11.503	20.727	13.826
6/15/2017 8:52	1980	33	2.864	6.613	11.495	20.735	13.835
6/15/2017 8:53	2040	34	2.856	6.594	11.476	20.754	13.832
6/15/2017 8:54	2100	35	2.853	6.588	11.47	20.76	13.826
6/15/2017 8:55	2160	36	2.851	6.583	11.465	20.765	13.862
6/15/2017 8:56	2220	37	2.846	6.57	11.452	20.778	13.813
6/15/2017 8:57	2280	38	2.844	6.567	11.449	20.781	13.806
6/15/2017 8:58	2340	39	2.842	6.562	11.444	20.786	13.846
6/15/2017 8:59	2400	40	2.839	6.554	11.436	20.794	13.817
6/15/2017 9:00	2460	41	2.838	6.552	11.434	20.796	13.825
6/15/2017 9:01	2520	42	2.835	6.547	11.429	20.801	13.837
6/15/2017 9:02	2580	43	2.835	6.547	11.429	20.801	13.837
6/15/2017 9:03	2640	44	2.832	6.539	11.421	20.809	13.834
6/15/2017 9:04	2700	45	2.83	6.534	11.416	20.814	13.833
6/15/2017 9:05	2760	46	2.829	6.533	11.415	20.815	13.871
6/15/2017 9:06	2820	47	2.829	6.532	11.414	20.816	13.874
6/15/2017 9:07	2880	48	2.825	6.524	11.406	20.824	13.871
6/15/2017 9:08	2940	49	2.825	6.522	11.404	20.826	13.87
6/15/2017 9:09	3000	50	2.823	6.519	11.401	20.829	13.84
6/15/2017 9:10	3060	51	2.822	6.515	11.397	20.833	13.877
6/15/2017 9:11	3120	52	2.821	6.513	11.395	20.835	13.825
6/15/2017 9:12	3180	53	2.819	6.51	11.392	20.838	13.821
6/15/2017 9:13	3240	54	2.818	6.507	11.389	20.841	13.843
6/15/2017 9:14	3300	55	2.817	6.503	11.385	20.845	13.84
6/15/2017 9:15	3360	56	2.813	6.495	11.377	20.853	13.829
6/15/2017 9:16	3420	57	2.815	6.499	11.381	20.849	13.854
6/15/2017 9:17	3480	58	2.817	6.505	11.387	20.843	13.832
6/15/2017 9:18	3540	59	2.817	6.505	11.387	20.843	13.848
6/15/2017 9:19	3600	60	2.814	6.498	11.38	20.85	13.857
6/15/2017 9:20	3660	61	2.814	6.496	11.378	20.852	13.879
6/15/2017 9:21	3720	62	2.814	6.497	11.379	20.851	13.841
6/15/2017 9:22	3780	63	2.81	6.488	11.37	20.86	13.848
6/15/2017 9:23	3840	64	2.81	6.488	11.37	20.86	13.84
6/15/2017 9:24	3900	65	2.81	6.488	11.37	20.86	13.844
6/15/2017 9:25	3960	66	2.809	6.486	11.368	20.862	13.869
6/15/2017 9:26	4020	67	2.808	6.484	11.366	20.864	13.832
6/15/2017 9:27	4080	68	2.807	6.482	11.364	20.866	13.835

6/15/2017 9:28	4140	69	2.806	6.479	11.361	20.869	13.841
6/15/2017 9:29	4200	70	2.804	6.475	11.357	20.873	13.867
6/15/2017 9:30	4260	71	2.808	6.484	11.366	20.864	13.837
6/15/2017 9:31	4320	72	2.809	6.485	11.367	20.863	13.847
6/15/2017 9:32	4380	73	2.806	6.479	11.361	20.869	13.861
6/15/2017 9:33	4440	74	2.806	6.478	11.36	20.87	13.857
6/15/2017 9:34	4500	75	2.803	6.472	11.354	20.876	13.854
6/15/2017 9:35	4560	76	2.806	6.479	11.361	20.869	13.859
6/15/2017 9:36	4620	77	2.802	6.471	11.353	20.877	13.846
6/15/2017 9:37	4680	78	2.804	6.473	11.355	20.875	13.862
6/15/2017 9:38	4740	79	2.805	6.477	11.359	20.871	13.858
6/15/2017 9:39	4800	80	2.804	6.475	11.357	20.873	13.862
6/15/2017 9:40	4860	81	2.803	6.473	11.355	20.875	13.87
6/15/2017 9:41	4920	82	2.804	6.474	11.356	20.874	13.874
6/15/2017 9:42	4980	83	2.804	6.474	11.356	20.874	13.878
6/15/2017 9:43	5040	84	2.8	6.465	11.347	20.883	13.863
6/15/2017 9:44	5100	85	2.803	6.472	11.354	20.876	13.793
6/15/2017 9:45	5160	86	2.802	6.469	11.351	20.879	13.823
6/15/2017 9:46	5220	87	2.801	6.468	11.35	20.88	13.816
6/15/2017 9:47	5280	88	2.802	6.471	11.353	20.877	13.806
6/15/2017 9:48	5340	89	2.801	6.468	11.35	20.88	13.838
6/15/2017 9:49	5400	90	2.8	6.465	11.347	20.883	13.851
6/15/2017 9:50	5460	91	2.799	6.464	11.346	20.884	13.829
6/15/2017 9:51	5520	92	2.799	6.463	11.345	20.885	13.821
6/15/2017 9:52	5580	93	2.798	6.462	11.344	20.886	13.862
6/15/2017 9:53	5640	94	2.801	6.468	11.35	20.88	13.845
6/15/2017 9:54	5700	95	2.797	6.459	11.341	20.889	13.846
6/15/2017 9:55	5760	96	2.799	6.464	11.346	20.884	13.859
6/15/2017 9:56	5820	97	2.798	6.461	11.343	20.887	13.846
6/15/2017 9:57	5880	98	2.798	6.461	11.343	20.887	13.857
6/15/2017 9:58	5940	99	2.798	6.461	11.343	20.887	13.851
6/15/2017 9:59	6000	100	2.797	6.459	11.341	20.889	13.844
6/15/2017 10:00	6060	101	2.797	6.457	11.339	20.891	13.861
6/15/2017 10:01	6120	102	2.796	6.455	11.337	20.893	13.873
6/15/2017 10:02	6180	103	2.796	6.455	11.337	20.893	13.861
6/15/2017 10:03	6240	104	2.797	6.459	11.341	20.889	13.848
6/15/2017 10:04	6300	105	2.794	6.452	11.334	20.896	13.887
6/15/2017 10:05	6360	106	2.796	6.457	11.339	20.891	13.864
6/15/2017 10:06	6420	107	2.797	6.459	11.341	20.889	13.862
6/15/2017 10:07	6480	108	2.796	6.456	11.338	20.892	13.85
6/15/2017 10:08	6540	109	2.793	6.449	11.331	20.899	13.864
6/15/2017 10:09	6600	110	2.793	6.45	11.332	20.898	13.876
6/15/2017 10:10	6660	111	2.796	6.456	11.338	20.892	13.854
6/15/2017 10:11	6720	112	2.793	6.45	11.332	20.898	13.848
6/15/2017 10:12	6780	113	2.795	6.453	11.335	20.895	13.858
6/15/2017 10:13	6840	114	2.796	6.457	11.339	20.891	13.865
6/15/2017 10:14	6900	115	2.796	6.456	11.338	20.892	13.884

6/15/2017 10:15	6960	116	2.793	6.45	11.332	20.898	13.863
6/15/2017 10:16	7020	117	2.794	6.45	11.332	20.898	13.856
6/15/2017 10:17	7080	118	2.791	6.445	11.327	20.903	13.867
6/15/2017 10:18	7140	119	2.794	6.452	11.334	20.896	13.872
6/15/2017 10:19	7200	120	2.795	6.453	11.335	20.895	13.863
6/15/2017 10:20	7260	121	2.793	6.45	11.332	20.898	13.864
6/15/2017 10:21	7320	122	2.792	6.447	11.329	20.901	13.852
6/15/2017 10:22	7380	123	2.792	6.446	11.328	20.902	13.872
6/15/2017 10:23	7440	124	2.792	6.446	11.328	20.902	13.854
6/15/2017 10:24	7500	125	2.793	6.448	11.33	20.9	13.819
6/15/2017 10:25	7560	126	2.793	6.448	11.33	20.9	13.838
6/15/2017 10:26	7620	127	2.794	6.451	11.333	20.897	13.854
6/15/2017 10:27	7680	128	2.794	6.451	11.333	20.897	13.844
6/15/2017 10:28	7740	129	2.793	6.448	11.33	20.9	13.857
6/15/2017 10:29	7800	130	2.791	6.445	11.327	20.903	13.851
6/15/2017 10:30	7860	131	2.792	6.446	11.328	20.902	13.829
6/15/2017 10:31	7920	132	2.791	6.445	11.327	20.903	13.833
6/15/2017 10:32	7980	133	2.791	6.444	11.326	20.904	13.884
6/15/2017 10:33	8040	134	2.79	6.443	11.325	20.905	13.842
6/15/2017 10:34	8100	135	2.792	6.447	11.329	20.901	13.853
6/15/2017 10:35	8160	136	2.794	6.45	11.332	20.898	13.865
6/15/2017 10:36	8220	137	2.786	6.434	11.316	20.914	13.87
6/15/2017 10:37	8280	138	2.791	6.445	11.327	20.903	13.876
6/15/2017 10:38	8340	139	2.789	6.439	11.321	20.909	13.881
6/15/2017 10:39	8400	140	2.789	6.439	11.321	20.909	13.863
6/15/2017 10:40	8460	141	2.79	6.443	11.325	20.905	13.87
6/15/2017 10:41	8520	142	2.791	6.444	11.326	20.904	13.854
6/15/2017 10:42	8580	143	2.789	6.44	11.322	20.908	13.868
6/15/2017 10:43	8640	144	2.791	6.445	11.327	20.903	13.835
6/15/2017 10:44	8700	145	2.788	6.438	11.32	20.91	13.832
6/15/2017 10:45	8760	146	2.788	6.438	11.32	20.91	13.824
6/15/2017 10:46	8820	147	2.787	6.435	11.317	20.913	13.868
6/15/2017 10:47	8880	148	2.791	6.444	11.326	20.904	13.868
6/15/2017 10:48	8940	149	2.789	6.439	11.321	20.909	13.847
6/15/2017 10:49	9000	150	2.789	6.441	11.323	20.907	13.856
6/15/2017 10:50	9060	151	2.789	6.439	11.321	20.909	13.846
6/15/2017 10:51	9120	152	2.789	6.439	11.321	20.909	13.853
6/15/2017 10:52	9180	153	2.787	6.435	11.317	20.913	13.848
6/15/2017 10:53	9240	154	2.787	6.436	11.318	20.912	13.854
6/15/2017 10:54	9300	155	2.787	6.435	11.317	20.913	13.834
6/15/2017 10:55	9360	156	2.787	6.435	11.317	20.913	13.856
6/15/2017 10:56	9420	157	2.788	6.437	11.319	20.911	13.842
6/15/2017 10:57	9480	158	2.79	6.441	11.323	20.907	13.838
6/15/2017 10:58	9540	159	2.787	6.435	11.317	20.913	13.86
6/15/2017 10:59	9600	160	2.789	6.439	11.321	20.909	13.844
6/15/2017 11:00	9660	161	2.787	6.434	11.316	20.914	13.879
6/15/2017 11:01	9720	162	2.785	6.431	11.313	20.917	13.871

6/15/2017 11:02	9780	163	2.784	6.429	11.311	20.919	13.881
6/15/2017 11:03	9840	164	2.789	6.439	11.321	20.909	13.871
6/15/2017 11:04	9900	165	2.786	6.432	11.314	20.916	13.867
6/15/2017 11:05	9960	166	2.787	6.436	11.318	20.912	13.858
6/15/2017 11:06	10020	167	2.786	6.434	11.316	20.914	13.875
6/15/2017 11:07	10080	168	2.786	6.434	11.316	20.914	13.881
6/15/2017 11:08	10140	169	2.787	6.435	11.317	20.913	13.868
6/15/2017 11:09	10200	170	2.785	6.432	11.314	20.916	13.873
6/15/2017 11:10	10260	171	2.785	6.431	11.313	20.917	13.889
6/15/2017 11:11	10320	172	2.784	6.429	11.311	20.919	13.869
6/15/2017 11:12	10380	173	2.786	6.433	11.315	20.915	13.868
6/15/2017 11:13	10440	174	2.786	6.434	11.316	20.914	13.889
6/15/2017 11:14	10500	175	2.785	6.43	11.312	20.918	13.865
6/15/2017 11:15	10560	176	2.786	6.433	11.315	20.915	13.873
6/15/2017 11:16	10620	177	2.785	6.43	11.312	20.918	13.869
6/15/2017 11:17	10680	178	2.786	6.434	11.316	20.914	13.899
6/15/2017 11:18	10740	179	2.787	6.435	11.317	20.913	13.888
6/15/2017 11:19	10800	180	2.785	6.43	11.312	20.918	13.864
6/15/2017 11:20	10860	181	2.788	6.436	11.318	20.912	13.864
6/15/2017 11:21	10920	182	2.785	6.43	11.312	20.918	13.859
6/15/2017 11:22	10980	183	2.784	6.427	11.309	20.921	13.891
6/15/2017 11:23	11040	184	2.785	6.43	11.312	20.918	13.887
6/15/2017 11:24	11100	185	2.786	6.434	11.316	20.914	13.891
6/15/2017 11:25	11160	186	2.784	6.428	11.31	20.92	13.887
6/15/2017 11:26	11220	187	2.783	6.426	11.308	20.922	13.875
6/15/2017 11:27	11280	188	2.785	6.43	11.312	20.918	13.865
6/15/2017 11:28	11340	189	2.782	6.424	11.306	20.924	13.868
6/15/2017 11:29	11400	190	2.783	6.425	11.307	20.923	13.896
6/15/2017 11:30	11460	191	2.781	6.422	11.304	20.926	13.859
6/15/2017 11:31	11520	192	2.784	6.429	11.311	20.919	13.86
6/15/2017 11:32	11580	193	2.781	6.422	11.304	20.926	13.877
6/15/2017 11:33	11640	194	2.784	6.428	11.31	20.92	13.889
6/15/2017 11:34	11700	195	2.783	6.425	11.307	20.923	13.89
6/15/2017 11:35	11760	196	2.784	6.428	11.31	20.92	13.908
6/15/2017 11:36	11820	197	2.782	6.423	11.305	20.925	13.903
6/15/2017 11:37	11880	198	2.785	6.43	11.312	20.918	13.891
6/15/2017 11:38	11940	199	2.782	6.423	11.305	20.925	13.874
6/15/2017 11:39	12000	200	2.784	6.429	11.311	20.919	13.896
6/15/2017 11:40	12060	201	2.781	6.421	11.303	20.927	13.892
6/15/2017 11:41	12120	202	2.782	6.423	11.305	20.925	13.907
6/15/2017 11:42	12180	203	2.784	6.428	11.31	20.92	13.849
6/15/2017 11:43	12240	204	2.784	6.427	11.309	20.921	13.88
6/15/2017 11:44	12300	205	2.784	6.428	11.31	20.92	13.859
6/15/2017 11:45	12360	206	2.784	6.428	11.31	20.92	13.883
6/15/2017 11:46	12420	207	2.781	6.42	11.302	20.928	13.892
6/15/2017 11:47	12480	208	2.782	6.425	11.307	20.923	13.884
6/15/2017 11:48	12540	209	2.782	6.424	11.306	20.924	13.878

6/15/2017 11:49	12600	210	2.784	6.427	11.309	20.921	13.886
6/15/2017 11:50	12660	211	2.783	6.427	11.309	20.921	13.871
6/15/2017 11:51	12720	212	2.783	6.426	11.308	20.922	13.865
6/15/2017 11:52	12780	213	2.786	6.432	11.314	20.916	13.909
6/15/2017 11:53	12840	214	2.782	6.423	11.305	20.925	13.879
6/15/2017 11:54	12900	215	2.783	6.427	11.309	20.921	13.903
6/15/2017 11:55	12960	216	2.781	6.422	11.304	20.926	13.911
6/15/2017 11:56	13020	217	2.782	6.425	11.307	20.923	13.89
6/15/2017 11:57	13080	218	2.782	6.424	11.306	20.924	13.889
6/15/2017 11:58	13140	219	2.781	6.421	11.303	20.927	13.909
6/15/2017 11:59	13200	220	2.779	6.418	11.3	20.93	13.895
6/15/2017 12:00	13260	221	2.784	6.428	11.31	20.92	13.9
6/15/2017 12:01	13320	222	2.781	6.421	11.303	20.927	13.892
6/15/2017 12:02	13380	223	2.781	6.421	11.303	20.927	13.923
6/15/2017 12:03	13440	224	2.782	6.425	11.307	20.923	13.877
6/15/2017 12:04	13500	225	2.779	6.418	11.3	20.93	13.875
6/15/2017 12:05	13560	226	2.781	6.421	11.303	20.927	13.923
6/15/2017 12:06	13620	227	2.785	6.43	11.312	20.918	13.896
6/15/2017 12:07	13680	228	2.782	6.423	11.305	20.925	13.868
6/15/2017 12:08	13740	229	2.78	6.419	11.301	20.929	13.899
6/15/2017 12:09	13800	230	2.779	6.418	11.3	20.93	13.897
6/15/2017 12:10	13860	231	2.783	6.426	11.308	20.922	13.861
6/15/2017 12:11	13920	232	2.781	6.421	11.303	20.927	13.886
6/15/2017 12:12	13980	233	2.778	6.414	11.296	20.934	13.881
6/15/2017 12:13	14040	234	2.782	6.424	11.306	20.924	13.854
6/15/2017 12:14	14100	235	2.783	6.426	11.308	20.922	13.886
6/15/2017 12:15	14160	236	2.78	6.418	11.3	20.93	13.865
6/15/2017 12:16	14220	237	2.78	6.419	11.301	20.929	13.873
6/15/2017 12:17	14280	238	2.782	6.423	11.305	20.925	13.882
6/15/2017 12:18	14340	239	2.78	6.42	11.302	20.928	13.878
6/15/2017 12:19	14400	240	2.779	6.418	11.3	20.93	13.874
6/15/2017 12:20	14460	241	2.78	6.418	11.3	20.93	13.868
6/15/2017 12:21	14520	242	2.778	6.415	11.297	20.933	13.871
6/15/2017 12:22	14580	243	2.781	6.42	11.302	20.928	13.872
6/15/2017 12:23	14640	244	2.778	6.415	11.297	20.933	13.862
6/15/2017 12:24	14700	245	2.78	6.418	11.3	20.93	13.874
6/15/2017 12:25	14760	246	2.782	6.423	11.305	20.925	13.872
6/15/2017 12:26	14820	247	2.779	6.416	11.298	20.932	13.873
6/15/2017 12:27	14880	248	2.778	6.415	11.297	20.933	13.903
6/15/2017 12:28	14940	249	2.78	6.418	11.3	20.93	13.876
6/15/2017 12:29	15000	250	2.779	6.416	11.298	20.932	13.846
6/15/2017 12:30	15060	251	2.777	6.412	11.294	20.936	13.848
6/15/2017 12:31	15120	252	2.78	6.419	11.301	20.929	13.839
6/15/2017 12:32	15180	253	2.778	6.415	11.297	20.933	13.836
6/15/2017 12:33	15240	254	2.779	6.416	11.298	20.932	13.84
6/15/2017 12:34	15300	255	2.78	6.418	11.3	20.93	13.826
6/15/2017 12:35	15360	256	2.778	6.415	11.297	20.933	13.847

6/15/2017 12:36	15420	257	2.78	6.418	11.3	20.93	13.832
6/15/2017 12:37	15480	258	2.782	6.424	11.306	20.924	13.836
6/15/2017 12:38	15540	259	2.78	6.418	11.3	20.93	13.832
6/15/2017 12:39	15600	260	2.781	6.421	11.303	20.927	13.823
6/15/2017 12:40	15660	261	2.78	6.419	11.301	20.929	13.835
6/15/2017 12:41	15720	262	2.78	6.418	11.3	20.93	13.862
6/15/2017 12:42	15780	263	2.776	6.409	11.291	20.939	13.836
6/15/2017 12:43	15840	264	2.778	6.414	11.296	20.934	13.843
6/15/2017 12:44	15900	265	2.779	6.417	11.299	20.931	13.841
6/15/2017 12:45	15960	266	2.767	6.389	11.271	20.959	13.87
6/15/2017 12:46	16020	267	2.778	6.414	11.296	20.934	13.853
6/15/2017 12:47	16080	268	2.778	6.415	11.297	20.933	13.868
6/15/2017 12:48	16140	269	2.779	6.416	11.298	20.932	13.866
6/15/2017 12:49	16200	270	2.778	6.413	11.295	20.935	13.86
6/15/2017 12:50	16260	271	2.778	6.414	11.296	20.934	13.882
6/15/2017 12:51	16320	272	2.777	6.412	11.294	20.936	13.873
6/15/2017 12:52	16380	273	2.78	6.418	11.3	20.93	13.868
6/15/2017 12:53	16440	274	2.778	6.414	11.296	20.934	13.86
6/15/2017 12:54	16500	275	2.775	6.407	11.289	20.941	13.855
6/15/2017 12:55	16560	276	2.777	6.413	11.295	20.935	13.867
6/15/2017 12:56	16620	277	2.775	6.408	11.29	20.94	13.847
6/15/2017 12:57	16680	278	2.779	6.417	11.299	20.931	13.84
6/15/2017 12:58	16740	279	2.776	6.409	11.291	20.939	13.87
6/15/2017 12:59	16800	280	2.779	6.416	11.298	20.932	13.848
6/15/2017 13:00	16860	281	2.776	6.409	11.291	20.939	13.851
6/15/2017 13:01	16920	282	2.773	6.404	11.286	20.944	13.837
6/15/2017 13:02	16980	283	2.778	6.414	11.296	20.934	13.835
6/15/2017 13:03	17040	284	2.774	6.406	11.288	20.942	13.846
6/15/2017 13:04	17100	285	2.777	6.413	11.295	20.935	13.829
6/15/2017 13:05	17160	286	2.776	6.41	11.292	20.938	13.848
6/15/2017 13:06	17220	287	2.777	6.411	11.293	20.937	13.847
6/15/2017 13:07	17280	288	2.776	6.411	11.293	20.937	13.87
6/15/2017 13:08	17340	289	2.777	6.411	11.293	20.937	13.857
6/15/2017 13:09	17400	290	2.776	6.41	11.292	20.938	13.862
6/15/2017 13:10	17460	291	2.776	6.411	11.293	20.937	13.861
6/15/2017 13:11	17520	292	2.774	6.404	11.286	20.944	13.892
6/15/2017 13:12	17580	293	2.776	6.41	11.292	20.938	13.895
6/15/2017 13:13	17640	294	2.775	6.408	11.29	20.94	13.875
6/15/2017 13:14	17700	295	2.774	6.405	11.287	20.943	13.897
6/15/2017 13:15	17760	296	2.777	6.411	11.293	20.937	13.881
6/15/2017 13:16	17820	297	2.776	6.411	11.293	20.937	13.899
6/15/2017 13:17	17880	298	2.779	6.416	11.298	20.932	13.884
6/15/2017 13:18	17940	299	2.78	6.42	11.302	20.928	13.883
6/15/2017 13:19	18000	300	2.782	6.424	11.306	20.924	13.887
6/15/2017 13:20	18060	301	2.786	6.433	11.315	20.915	13.857
6/15/2017 13:21	18120	302	2.79	6.442	11.324	20.906	13.891
6/15/2017 13:22	18180	303	2.798	6.459	11.341	20.889	13.826

6/15/2017 13:23	18240	304	2.806	6.479	11.361	20.869	13.857
6/15/2017 13:24	18300	305	2.813	6.495	11.377	20.853	13.83
6/15/2017 13:25	18360	306	2.818	6.506	11.388	20.842	13.839
6/15/2017 13:26	18420	307	2.827	6.528	11.41	20.82	13.854
6/15/2017 13:27	18480	308	2.834	6.543	11.425	20.805	13.826
6/15/2017 13:28	18540	309	2.838	6.554	11.436	20.794	13.857
6/15/2017 13:29	18600	310	2.847	6.574	11.456	20.774	13.841
6/15/2017 13:30	18660	311	2.856	6.594	11.476	20.754	13.873
6/15/2017 13:31	18720	312	2.858	6.6	11.482	20.748	13.855
6/15/2017 13:32	18780	313	2.865	6.615	11.497	20.733	13.858
6/15/2017 13:33	18840	314	2.873	6.633	11.515	20.715	13.879
6/15/2017 13:34	18900	315	2.877	6.643	11.525	20.705	13.891
6/15/2017 13:35	18960	316	2.885	6.661	11.543	20.687	13.899
6/15/2017 13:36	19020	317	2.892	6.677	11.559	20.671	13.892
6/15/2017 13:37	19080	318	2.896	6.687	11.569	20.661	13.882
6/15/2017 13:38	19140	319	2.9	6.695	11.577	20.653	13.886
6/15/2017 13:39	19200	320	2.905	6.707	11.589	20.641	13.895
6/15/2017 13:40	19260	321	2.912	6.724	11.606	20.624	13.873
6/15/2017 13:41	19320	322	2.913	6.726	11.608	20.622	13.883
6/15/2017 13:42	19380	323	2.919	6.74	11.622	20.608	13.877
6/15/2017 13:43	19440	324	2.927	6.758	11.64	20.59	13.9
6/15/2017 13:44	19500	325	2.93	6.765	11.647	20.583	13.902
6/15/2017 13:45	19560	326	2.934	6.774	11.656	20.574	13.913
6/15/2017 13:46	19620	327	2.937	6.781	11.663	20.567	13.892
6/15/2017 13:47	19680	328	2.941	6.79	11.672	20.558	13.893
6/15/2017 13:48	19740	329	2.946	6.802	11.684	20.546	13.868
6/15/2017 13:49	19800	330	2.951	6.814	11.696	20.534	13.912
6/15/2017 13:50	19860	331	2.955	6.823	11.705	20.525	13.891
6/15/2017 13:51	19920	332	2.957	6.827	11.709	20.521	13.917
6/15/2017 13:52	19980	333	2.961	6.837	11.719	20.511	13.903
6/15/2017 13:53	20040	334	2.964	6.844	11.726	20.504	13.885
6/15/2017 13:54	20100	335	2.966	6.849	11.731	20.499	13.907
6/15/2017 13:55	20160	336	2.971	6.861	11.743	20.487	13.892
6/15/2017 13:56	20220	337	2.972	6.863	11.745	20.485	13.891
6/15/2017 13:57	20280	338	2.979	6.878	11.76	20.47	13.9
6/15/2017 13:58	20340	339	2.984	6.889	11.771	20.459	13.891
6/15/2017 13:59	20400	340	2.985	6.891	11.773	20.457	13.881
6/15/2017 14:00	20460	341	2.988	6.899	11.781	20.449	13.904
6/15/2017 14:01	20520	342	2.993	6.912	11.794	20.436	13.913
6/15/2017 14:02	20580	343	2.997	6.921	11.803	20.427	13.901
6/15/2017 14:03	20640	344	2.999	6.925	11.807	20.423	13.903
6/15/2017 14:04	20700	345	3.002	6.931	11.813	20.417	13.917
6/15/2017 14:05	20760	346	3.008	6.944	11.826	20.404	13.888
6/15/2017 14:06	20820	347	3.01	6.95	11.832	20.398	13.906
6/15/2017 14:07	20880	348	3.013	6.956	11.838	20.392	13.92
6/15/2017 14:08	20940	349	3.013	6.956	11.838	20.392	13.947
6/15/2017 14:09	21000	350	3.017	6.966	11.848	20.382	13.914

6/15/2017 14:10	21060	351	3.022	6.977	11.859	20.371	13.907
6/15/2017 14:11	21120	352	3.025	6.984	11.866	20.364	13.925
6/15/2017 14:12	21180	353	3.03	6.995	11.877	20.353	13.91
6/15/2017 14:13	21240	354	3.03	6.997	11.879	20.351	13.934
6/15/2017 14:14	21300	355	3.03	6.996	11.878	20.352	13.947
6/15/2017 14:15	21360	356	3.034	7.006	11.888	20.342	13.908
6/15/2017 14:16	21420	357	3.035	7.009	11.891	20.339	13.929
6/15/2017 14:17	21480	358	3.039	7.017	11.899	20.331	13.909
6/15/2017 14:18	21540	359	3.042	7.023	11.905	20.325	13.925
6/15/2017 14:19	21600	360	3.044	7.028	11.91	20.32	13.91
6/15/2017 14:20	21660	361	3.045	7.03	11.912	20.318	13.923
6/15/2017 14:21	21720	362	3.048	7.037	11.919	20.311	13.917
6/15/2017 14:22	21780	363	3.05	7.043	11.925	20.305	13.93
6/15/2017 14:23	21840	364	3.053	7.049	11.931	20.299	13.933
6/15/2017 14:24	21900	365	3.053	7.05	11.932	20.298	13.92
6/15/2017 14:25	21960	366	3.055	7.053	11.935	20.295	13.929
6/15/2017 14:26	22020	367	3.057	7.059	11.941	20.289	13.921
6/15/2017 14:27	22080	368	3.059	7.064	11.946	20.284	13.912
6/15/2017 14:28	22140	369	3.064	7.074	11.956	20.274	13.912
6/15/2017 14:29	22200	370	3.062	7.07	11.952	20.278	13.908
6/15/2017 14:30	22260	371	3.063	7.071	11.953	20.277	13.898
6/15/2017 14:31	22320	372	3.063	7.072	11.954	20.276	13.888
6/15/2017 14:32	22380	373	3.067	7.081	11.963	20.267	13.914
6/15/2017 14:33	22440	374	3.067	7.082	11.964	20.266	13.914
6/15/2017 14:34	22500	375	3.067	7.081	11.963	20.267	13.889
6/15/2017 14:35	22560	376	3.068	7.083	11.965	20.265	13.934
6/15/2017 14:36	22620	377	3.067	7.083	11.965	20.265	13.912
6/15/2017 14:37	22680	378	3.069	7.086	11.968	20.262	13.929
6/15/2017 14:38	22740	379	3.07	7.087	11.969	20.261	13.918
6/15/2017 14:39	22800	380	3.075	7.1	11.982	20.248	13.928
6/15/2017 14:40	22860	381	3.072	7.094	11.976	20.254	13.923
6/15/2017 14:41	22920	382	3.076	7.102	11.984	20.246	13.898
6/15/2017 14:42	22980	383	3.072	7.093	11.975	20.255	13.917
6/15/2017 14:43	23040	384	3.074	7.098	11.98	20.25	13.881
6/15/2017 14:44	23100	385	3.075	7.101	11.983	20.247	13.911
6/15/2017 14:45	23160	386	3.078	7.108	11.99	20.24	13.896
6/15/2017 14:46	23220	387	3.077	7.105	11.987	20.243	13.908
6/15/2017 14:47	23280	388	3.076	7.103	11.985	20.245	13.906
6/15/2017 14:48	23340	389	3.081	7.113	11.995	20.235	13.884
6/15/2017 14:49	23400	390	3.081	7.113	11.995	20.235	13.92
6/15/2017 14:50	23460	391	3.078	7.108	11.99	20.24	13.915
6/15/2017 14:51	23520	392	3.082	7.115	11.997	20.233	13.92
6/15/2017 14:52	23580	393	3.082	7.115	11.997	20.233	13.89
6/15/2017 14:53	23640	394	3.08	7.112	11.994	20.236	13.917
6/15/2017 14:54	23700	395	3.081	7.115	11.997	20.233	13.905
6/15/2017 14:55	23760	396	3.084	7.12	12.002	20.228	13.901
6/15/2017 14:56	23820	397	3.084	7.12	12.002	20.228	13.905

6/15/2017 14:57	23880	398	3.083	7.12	12.002	20.228	13.923
6/15/2017 14:58	23940	399	3.086	7.126	12.008	20.222	13.896
6/15/2017 14:59	24000	400	3.089	7.132	12.014	20.216	13.916
6/15/2017 15:00	24060	401	3.084	7.12	12.002	20.228	13.928
6/15/2017 15:01	24120	402	3.085	7.124	12.006	20.224	13.912
6/15/2017 15:02	24180	403	3.086	7.126	12.008	20.222	13.912
6/15/2017 15:03	24240	404	3.086	7.124	12.006	20.224	13.922
6/15/2017 15:04	24300	405	3.091	7.137	12.019	20.211	13.944
6/15/2017 15:05	24360	406	3.09	7.135	12.017	20.213	13.912
6/15/2017 15:06	24420	407	3.089	7.133	12.015	20.215	13.901
6/15/2017 15:07	24480	408	3.087	7.129	12.011	20.219	13.895
6/15/2017 15:08	24540	409	3.093	7.141	12.023	20.207	13.912
6/15/2017 15:09	24600	410	3.089	7.132	12.014	20.216	13.921
6/15/2017 15:10	24660	411	3.088	7.13	12.012	20.218	13.899
6/15/2017 15:11	24720	412	3.09	7.135	12.017	20.213	13.898
6/15/2017 15:12	24780	413	3.088	7.13	12.012	20.218	13.912
6/15/2017 15:13	24840	414	3.088	7.131	12.013	20.217	13.92
6/15/2017 15:14	24900	415	3.092	7.14	12.022	20.208	13.934
6/15/2017 15:15	24960	416	3.088	7.13	12.012	20.218	13.906
6/15/2017 15:16	25020	417	3.087	7.128	12.01	20.22	13.894
6/15/2017 15:17	25080	418	3.09	7.134	12.016	20.214	13.906
6/15/2017 15:18	25140	419	3.091	7.137	12.019	20.211	13.921
6/15/2017 15:19	25200	420	3.087	7.128	12.01	20.22	13.916
6/15/2017 15:20	25260	421	3.086	7.125	12.007	20.223	13.917
6/15/2017 15:21	25320	422	3.093	7.141	12.023	20.207	13.909

Summary of Water Level Measurements at PZ-14 Piezometer Array
RW-17-1 Pumping Test
Orange County Landfill
New Hampton, New York

Date	Time	PZ-14-1	PZ-14-2	PZ-14-3	PZ-14-4	PZ-14-5	PZ-14-6
6/15/2017	7:00	27.05	19.58	20.07	19.35	28.85	27.71
6/15/2017	9:10	27.26	19.97	20.53	19.72	28.88	27.91
6/15/2017	9:45	27.31	20.06	20.80	19.72	28.95	28.02
6/15/2017	10:30	27.35	20.07	20.90	19.79	29.01	28.04
6/15/2017	11:20	27.35	20.10	20.94	19.81	29.06	28.05
6/15/2017	11:55	27.35	20.10	20.95	19.81	29.11	28.05
6/15/2017	13:30	27.34	20.05	20.91	19.79	29.15	28.04
6/15/2017	15:40	27.04	19.70	20.20	19.45	29.07	27.77

Note:

Depth to water measured in feet.

Water level measured from the top of PVC riser.

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

Project	Orange County Landfill	Dates	6/15/2017
Location	New Hampton, NY	Pumping Well	PZ-17-1
Well No.	PZ-17-2	Measuring Point	Top of PVC Riser

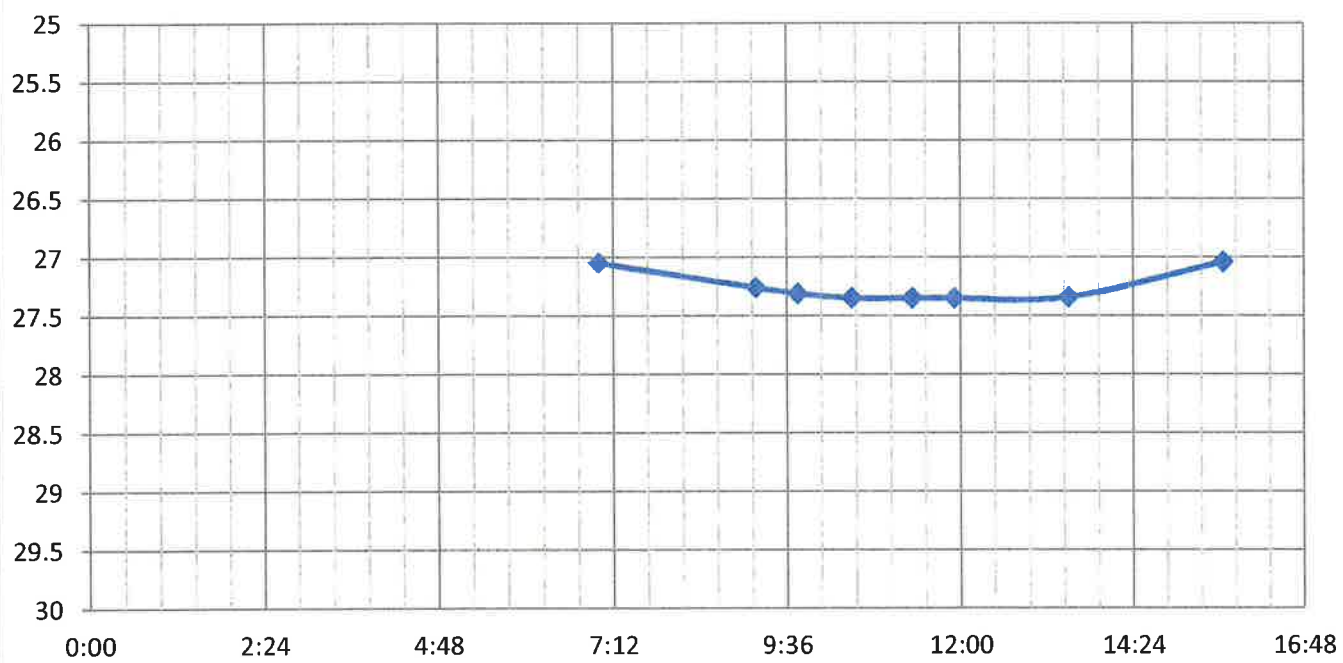
Date	Time	Water Level (Feet)	Pumping Rate (GPM)	Remarks
6/15/2017	8:30	20.08	0.0	Before Pumping Test
6/15/2017	8:38	---	3.0	Pump Test Start
6/15/2017	8:42	20.4	2.0	
6/15/2017	8:46	---	0.5	
6/15/2017	8:50	20.69	0.5	
6/15/2017	8:55	20.76	0.5	
6/15/2017	9:03	20.79	0.5	
6/15/2017	9:15	20.84	0.5	
6/15/2017	9:37	20.88	0.5	
6/15/2017	10:14	20.9	0.5	
6/15/2017	10:35	20.9	0.5	
6/15/2017	11:11	20.9	0.5	
6/15/2017	11:44	20.91	0.5	
6/15/2017	12:00	20.91	0.5	
6/15/2017	12:22	20.91	0.5	
6/15/2017	12:45	20.92	0.5	
6/15/2017	13:05	---	0.0	
6/15/2017	13:13	20.91	0.0	
6/15/2017	14:08	20.36	0.0	
6/15/2017	14:43	20.21	0.0	
6/15/2017	15:32	20.28	0.0	Transducer Stop

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

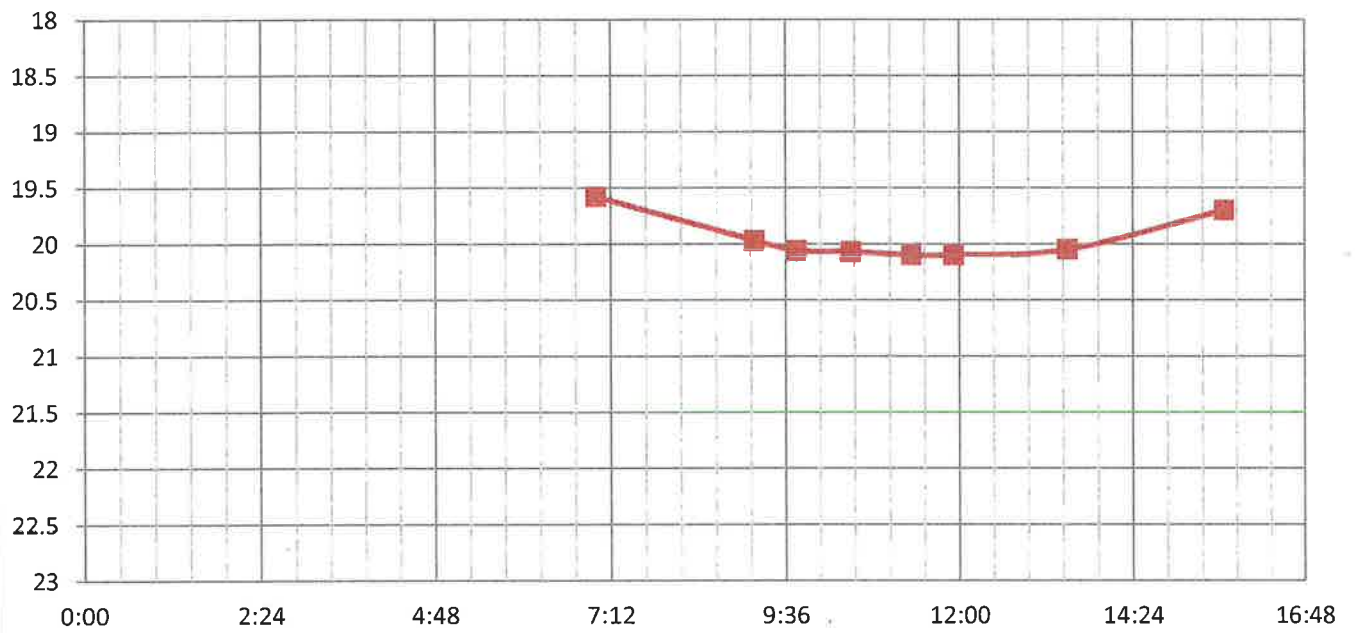
Project	<u>Orange County Landfill</u>	Dates	<u>6/15/2017</u>
Location	<u>New Hampton, NY</u>	Pumping Well	<u>PZ-17-1</u>
Well No.	<u>PZ-17-1</u>	Measuring Point	<u>Top of PVC Riser</u>

Date	Time	Water Level (Feet)	Pumping Rate (GPM)	Remarks
6/15/2017	8:30	19.62	0.0	Before Pumping Test
6/15/2017	8:38	---	3.0	Pump Test Start
6/15/2017	8:42	19.84	2.0	
6/15/2017	8:46	---	0.5	
6/15/2017	8:50	20.2	0.5	
6/15/2017	8:55	20.33	0.5	
6/15/2017	9:03	20.43	0.5	
6/15/2017	9:15	20.5	0.5	
6/15/2017	9:37	20.6	0.5	
6/15/2017	10:14	20.65	0.5	
6/15/2017	10:35	20.72	0.5	
6/15/2017	11:13	20.74	0.5	
6/15/2017	11:45	20.75	0.5	
6/15/2017	12:01	20.74	0.5	
6/15/2017	12:21	20.73	0.5	
6/15/2017	12:45	20.69	0.5	
6/15/2017	13:05	---	0.0	
6/15/2017	13:13	20.75	0.0	
6/15/2017	14:09	20.05	0.0	
6/15/2017	14:45	19.85	0.0	
6/15/2017	15:34	19.95	0.0	Transducer Stop

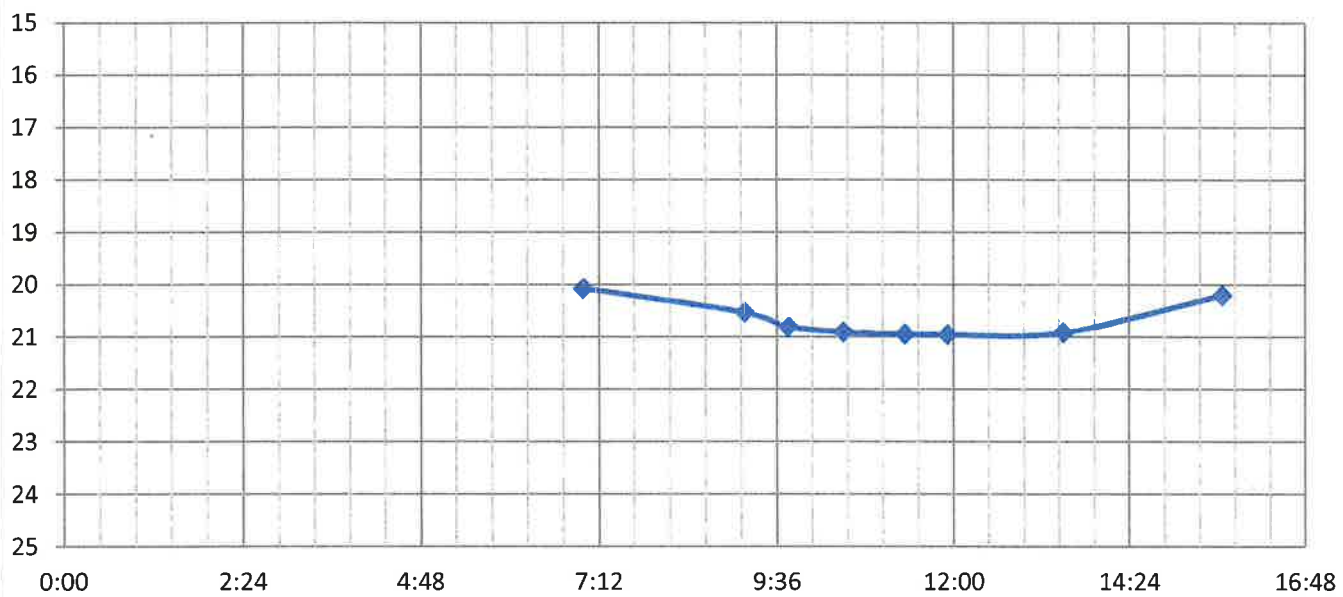
PZ-14-1



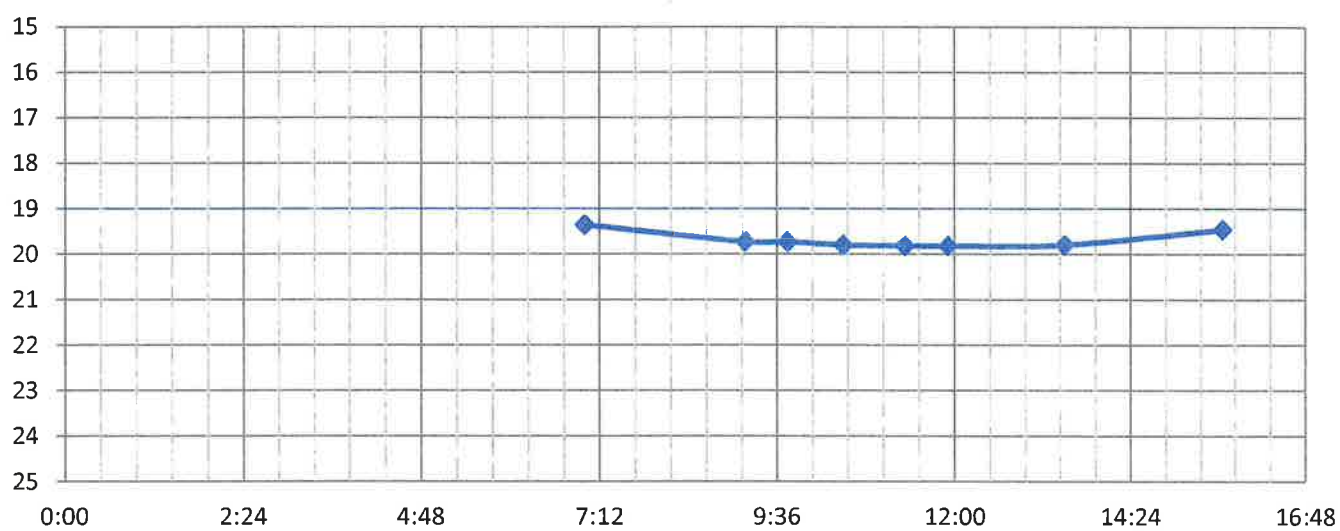
PZ-14-2



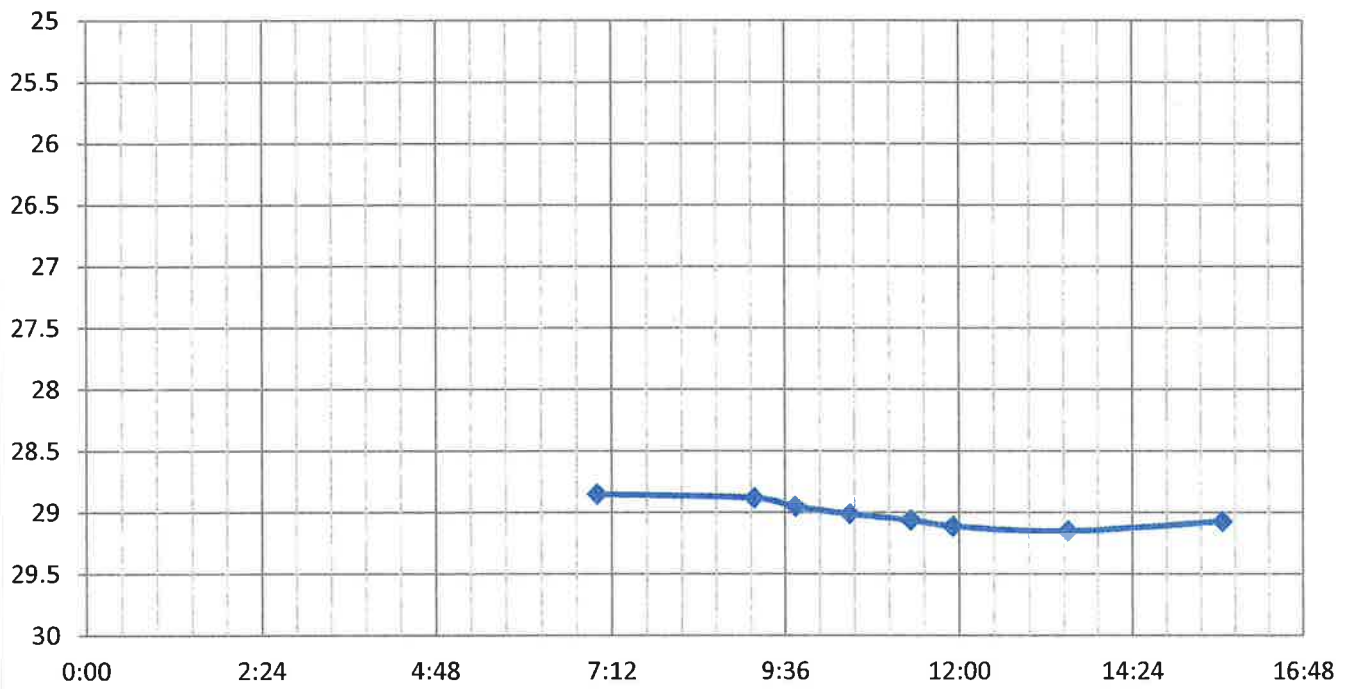
PZ-14-3



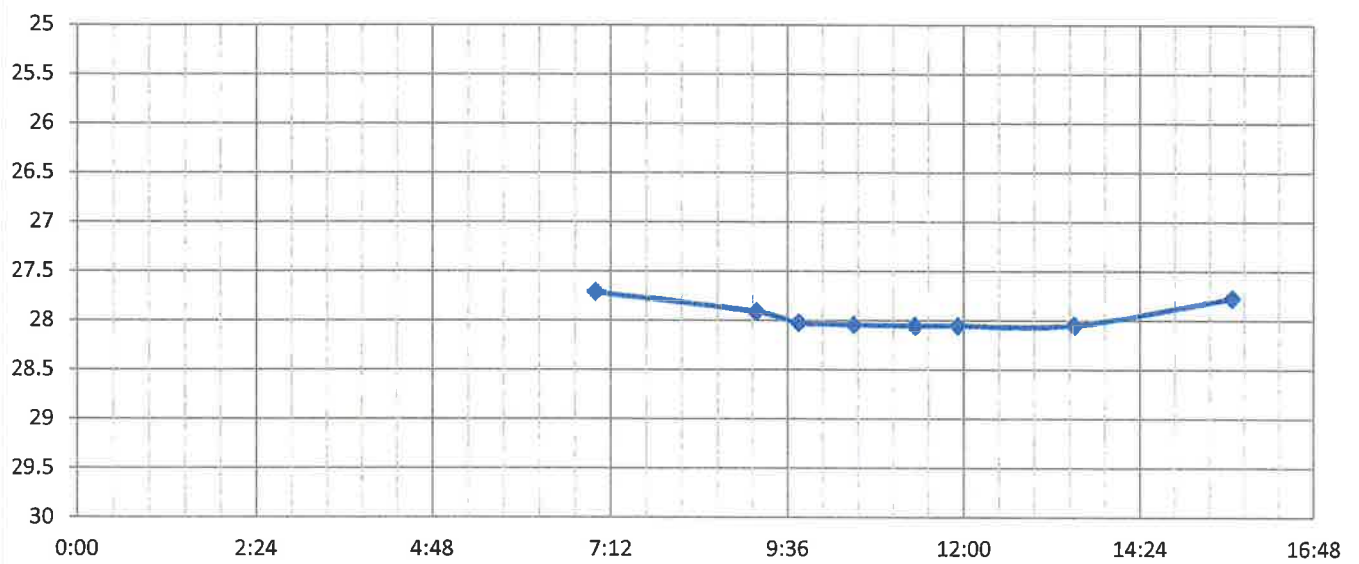
PZ-14-4



PZ-14-5



PZ-14-6



197 Minutes into pump (11:55AM) - Pump start at 8:38AM										120 mins (RW-17-1 1.775' drawdown)	
WL	MP Elevation	WL Elevation	Distance from RW	DTW Ele. before pump	Background WL	DTW	Drawdown				
RW-17-1	33.68	381.98	348.3	0	361.75	20.23	32.005	11.775			
PZ-14-1	27.35	350.27	362.92	50.9	363.22	27.05	27.35	0.3			
PZ-14-2	20.1	381.94	361.84	32.7	362.36	19.58	20.07	0.49			
PZ-14-3	20.95	381.83	360.88	4.2	361.76	20.07	20.9	0.83			
PZ-14-4	19.81	381.77	361.96	36.9	362.42	19.35	19.79	0.44			
PZ-14-5	29.11	392.22	363.11	39.3	363.37	28.85	29.01	0.16			
PZ-14-6	28.05	391.11	363.06	54.6	363.4	27.71	28.04	0.33			
PZ-17-1	20.39	381.49	361.1	4.4	361.85	19.64	20.357	0.717			
PZ-17-2	20.92	381.9	360.98	9.3	361.84	20.06	30.9	0.84			

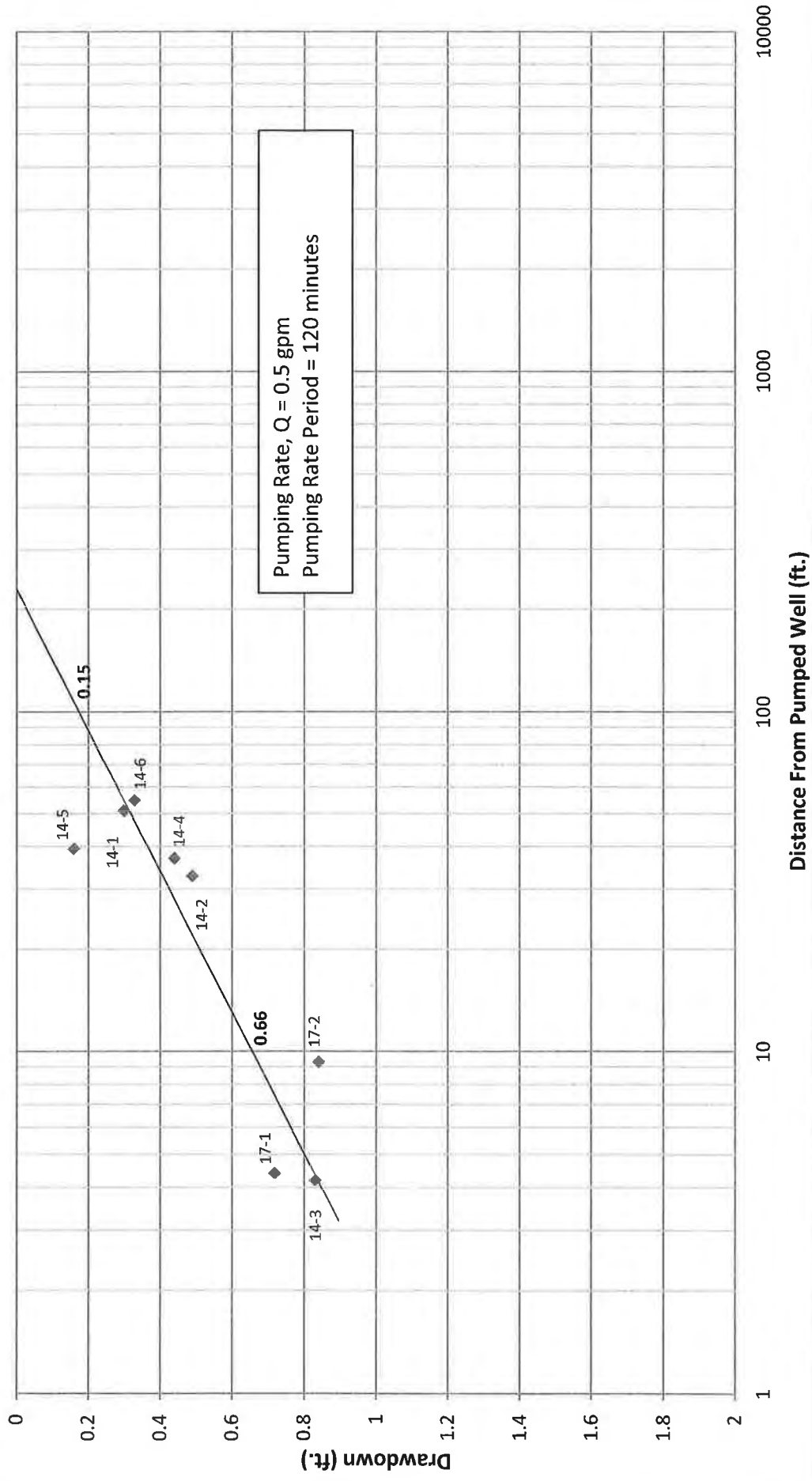
Date	Time	PZ-14-1	PZ-14-2	PZ-14-3	PZ-14-4	PZ-14-5	PZ-14-6
6/15/2017	7:00	27.05	19.58	20.07	19.35	28.85	27.71
6/15/2017	9:10	27.26	19.97	20.53	19.72	28.88	27.91
6/15/2017	9:45	27.31	20.06	20.80	19.72	28.95	28.02
6/15/2017	10:30	27.35	20.07	20.90	19.79	29.01	28.04
6/15/2017	11:20	27.35	20.10	20.94	19.81	29.06	28.05
6/15/2017	11:55	27.35	20.10	20.95	19.81	29.11	28.05
6/15/2017	13:30	27.34	20.05	20.91	19.79	29.15	28.04
6/15/2017	15:40	27.04	19.70	20.20	19.45	29.07	27.77

Note:

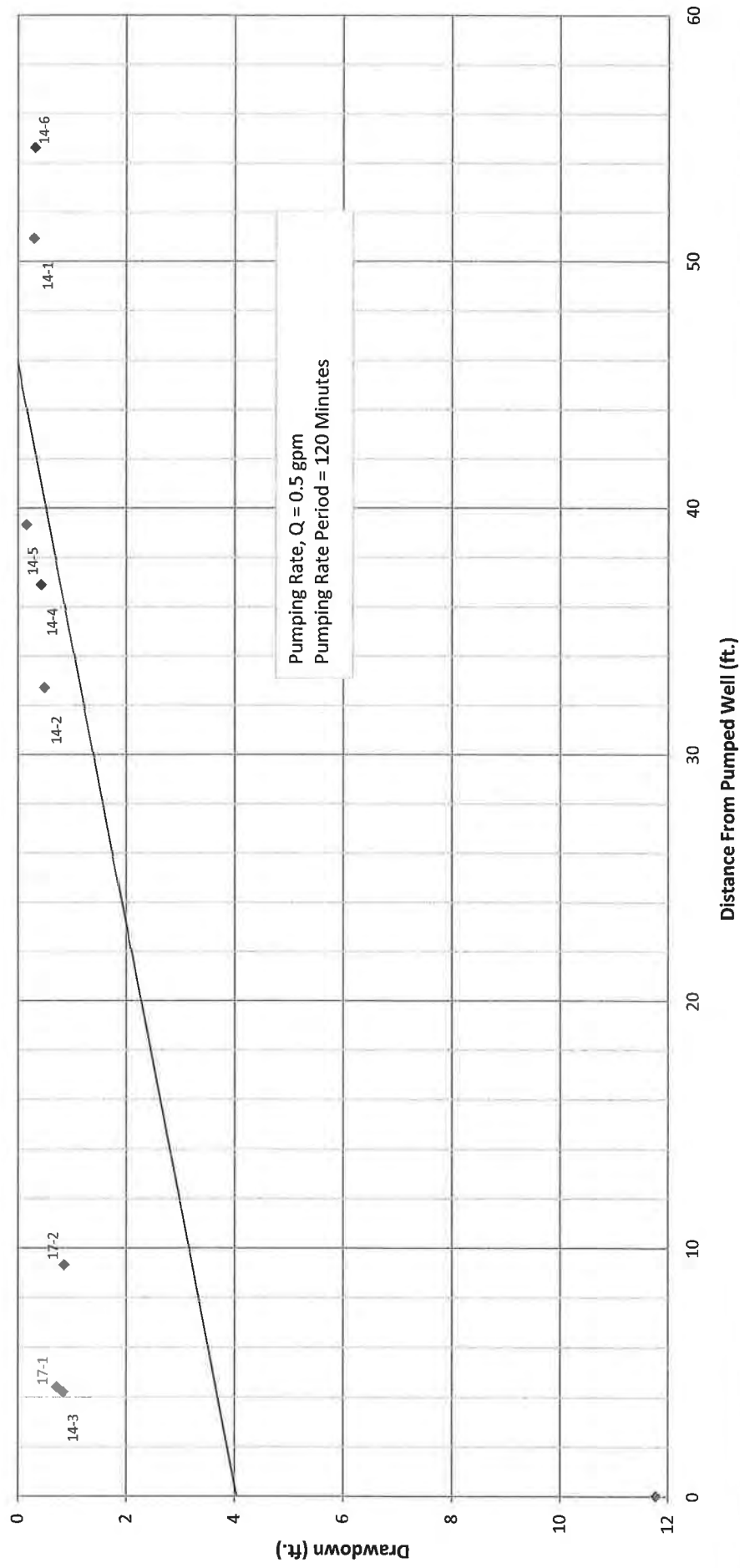
Water level measured in feet.

Water level measured from the top of PVC riser.

Distance - Drawdown Graph (RW-17-1 Pumping Test - Log)



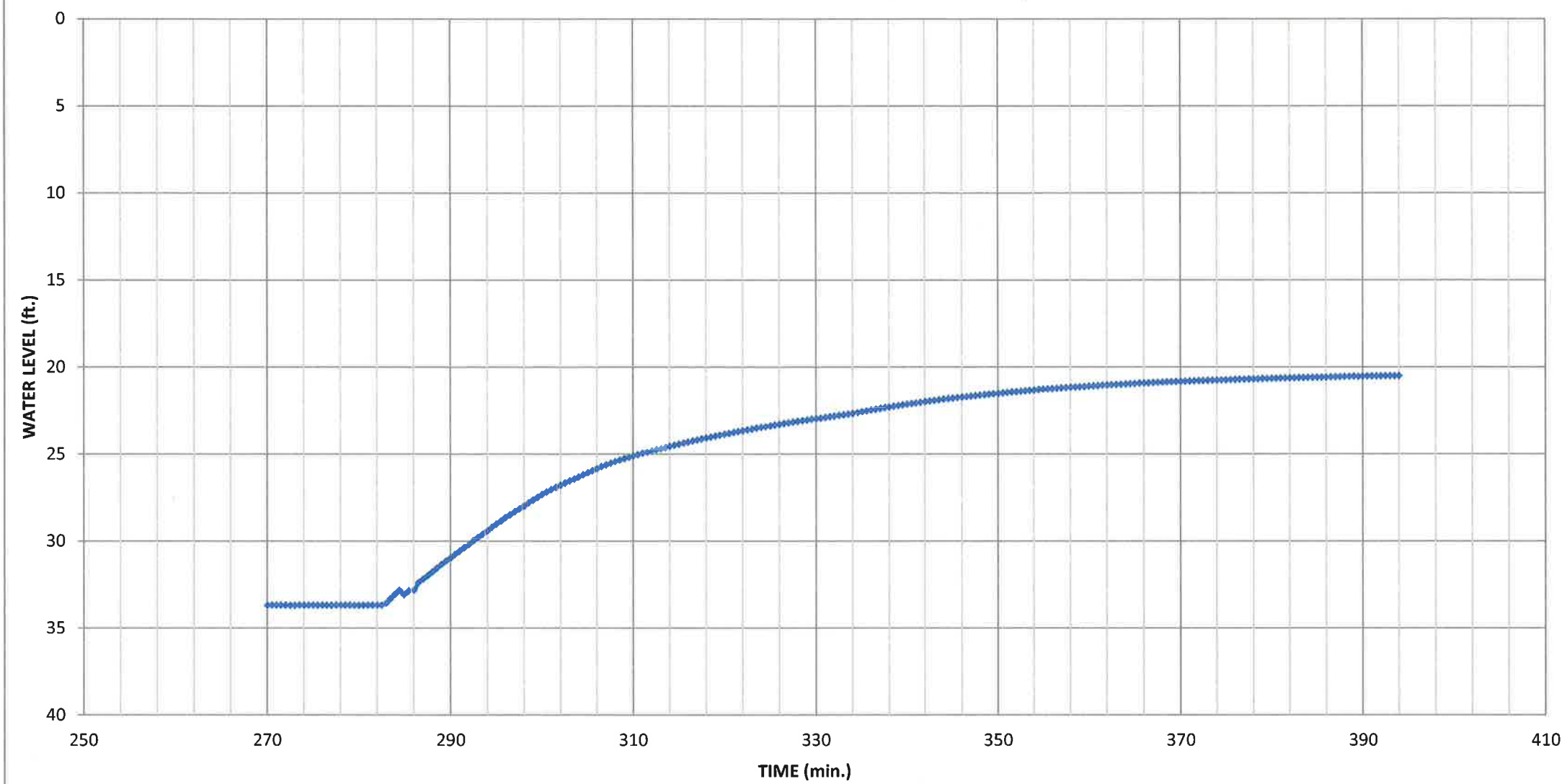
Distance - Drawdown Graph (RW-17-1 Pumping Test - Linear)



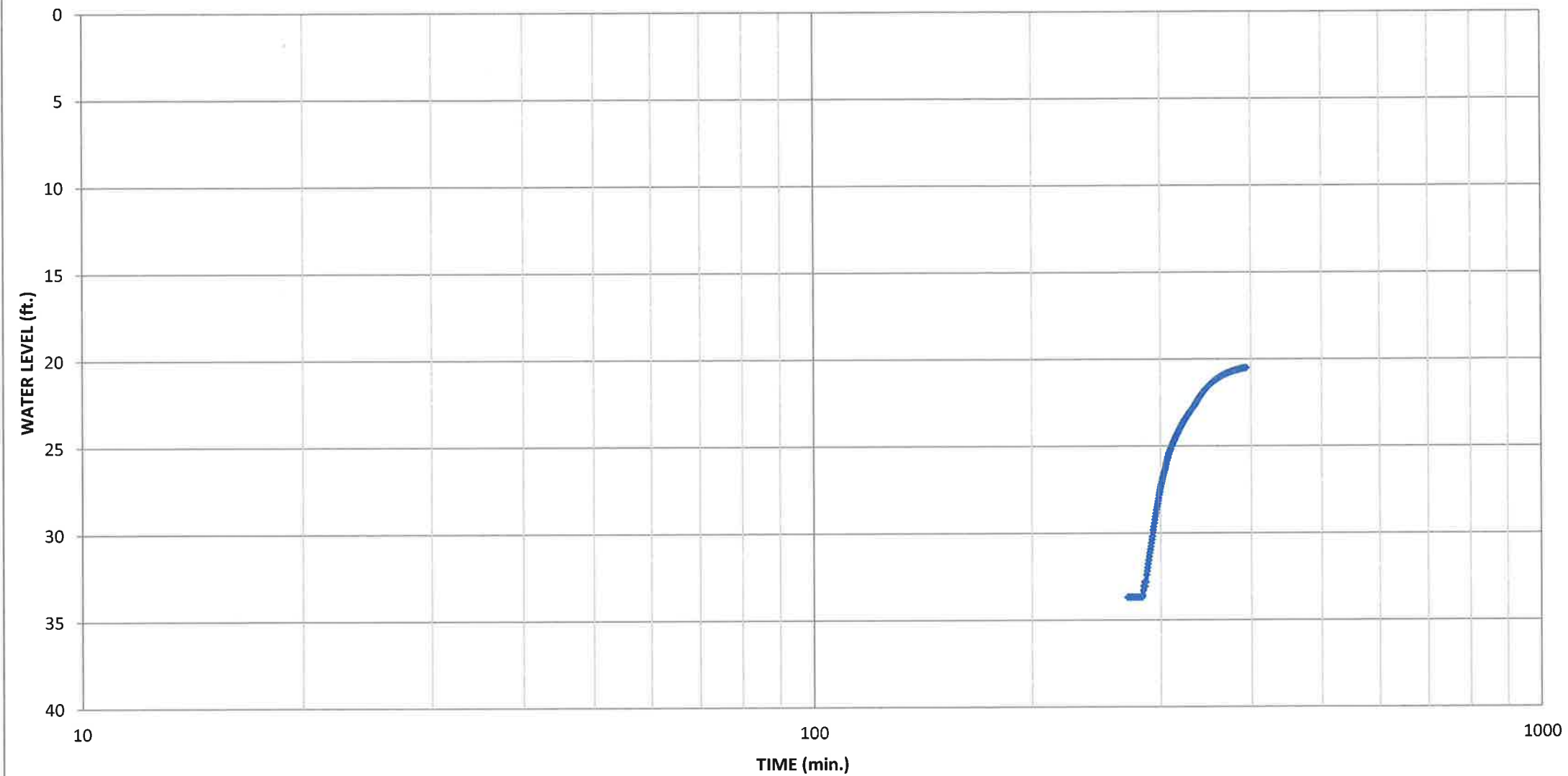
APPENDIX E

RECOVERY MONITORING DATA

RW-17-1 Recovery Data



RW-17-1 Recovery Data (Semi-Log)



APPENDIX F

ANALYTICAL REPORT – GROUNDWATER



ANALYTICAL REPORT

Lab Number:	L1720234
Client:	Sterling Environmental Eng 24 Wade Road Latham, NY 12110
ATTN:	Tom Johnson
Phone:	(518) 456-4900
Project Name:	ORANGE COUNTY LANDFILL
Project Number:	2010-15
Report Date:	06/23/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720234-01	RW-17-1 (1.5 HR.)	WATER	NY	06/15/17 10:00	06/15/17
L1720234-02	RW-17-1 (END)	WATER	NY	06/15/17 13:00	06/15/17

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

The WG1015687-3 MS recovery for hardness (222%), performed on L1720234-01, does not apply because the sample concentration is greater than four times the spike amount added.

Dissolved Oxygen

L1720234-01 and -02 were analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kara Lindquist

Title: Technical Director/Representative

Date: 06/23/17

METALS

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720234**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720234-01**Date Collected:** 06/15/17 10:00**Client ID:** RW-17-1 (1.5 HR.)**Date Received:** 06/15/17**Sample Location:** NY**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	514		mg/l	0.660	NA	1	06/22/17 06:45	06/22/17 13:19	EPA 3005A	1,6010C	PS



Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720234**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720234-02**Date Collected:** 06/15/17 13:00**Client ID:** RW-17-1 (END)**Date Received:** 06/15/17**Sample Location:** NY**Field Prep:** Not Specified**Matrix:** Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	478		mg/l	0.660	NA	1	06/20/17 17:20	06/22/17 13:03	EPA 3005A	1,6010C	AM



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 02 Batch: WG1015050-1										
Hardness	ND		mg/l	0.660	NA	1	06/20/17 17:20	06/22/17 12:27	1,6010C	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01 Batch: WG1015687-1										
Hardness	ND		mg/l	0.660	NA	1	06/22/17 06:45	06/22/17 13:15	1,6010C	PS

Prep Information

Digestion Method: EPA 3005A



Serial_No:06231715:09

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 Batch: WG1015050-2								
Hardness	101		-		80-120	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 Batch: WG1015687-2								
Hardness	106		-		80-120	-		

Serial_No:06231715:09

**Matrix Spike Analysis
Batch Quality Control**

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1915050-3 QC Sample: L1720400-01 Client ID: MS Sample												
Hardness	236.	66.2	291	83		-	-		75-125	-		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015687-3 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.)												
Hardness	514.	66.2	661	222	Q	-	-		75-125	-		20

Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1015050-4 QC Sample: L1720400-01 Client ID: DUP Sample						
Hardness	236.	236	mg/l	0.		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015687-4 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.)						
Hardness	514.	552	mg/l	7.		20

INORGANICS & MISCELLANEOUS

Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720234-01
 Client ID: RW-17-1 (1.5 HR.)
 Sample Location: NY
 Matrix: Water

Date Collected: 06/15/17 10:00
 Date Received: 06/15/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	21		NTU	0.20	0.20	1	-	06/16/17 05:17	44,180.1	KA
Color, Apparent	52		A.P.C.U.	10	10.	2	-	06/16/17 08:55	121,2120B	KA
Alkalinity, Total	555.		mg CaCO ₃ /L	2.00	NA	1	-	06/16/17 20:51	121,2320B	MR
Specific Conductance @ 25 C	1100		umhos/cm	10	10.	1	-	06/16/17 03:08	1,9050A	VB
Solids, Total Dissolved	680		mg/l	10	3.1	1	-	06/20/17 12:30	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	06/17/17 12:03	06/19/17 15:29	1,9010C/9012B	LK
pH (H)	6.9		SU	-	NA	1	-	06/16/17 09:25	1,9040C	VB
Nitrogen, Ammonia	4.55		mg/l	0.075	0.022	1	06/17/17 15:22	06/19/17 22:42	121,4500NH ₃ -BH	AT
Nitrogen, Nitrite	ND		mg/l	0.050	0.010	1	-	06/16/17 22:14	44,353.2	MR
Nitrogen, Total Kjeldahl	4.74		mg/l	0.300	0.066	1	06/20/17 17:39	06/20/17 20:43	4,351.3/.1 (M)	AT
Dissolved Oxygen	2.8		mg/l	0.10	0.10	1	-	06/16/17 17:10	121,4500O-C	WR
Chemical Oxygen Demand	13.		mg/l	10	2.7	1	06/19/17 22:30	06/20/17 00:52	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	06/17/17 00:05	06/21/17 18:08	121,5210B	CW
Total Organic Carbon	3.04		mg/l	0.500	0.114	1	-	06/16/17 07:51	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	06/19/17 11:22	06/19/17 14:58	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/16/17 04:00	06/16/17 04:13	1,7196A	KA
Oxidation/Reduction Potential	200		mv	-	NA	1	-	06/16/17 08:39	12,1498	VB
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.327		mg/l	0.050	0.009	1	-	06/18/17 19:22	44,300.0	JC
Chloride	60.8		mg/l	25.0	4.20	50	-	06/18/17 02:43	44,300.0	JC
Sulfate	29.5		mg/l	1.00	0.160	1	-	06/18/17 19:22	44,300.0	JC



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720234-02

Date Collected: 06/15/17 13:00

Client ID: RW-17-1 (END)

Date Received: 06/15/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	26		NTU	0.20	0.20	1	-	06/16/17 05:17	44,180.1	KA
Color, Apparent	76		A.P.C.U.	10	10.	2	-	06/16/17 08:55	121,2120B	KA
Alkalinity, Total	537.		mg CaCO3/L	2.00	NA	1	-	06/16/17 20:51	121,2320B	MR
Specific Conductance @ 25 C	1100		umhos/cm	10	10.	1	-	06/16/17 03:08	1,9050A	VB
Solids, Total Dissolved	650		mg/l	10	3.1	1	-	06/20/17 12:30	121,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	06/17/17 12:03	06/19/17 15:33	1,9010C/9012B	LK
pH (H)	6.9		SU	-	NA	1	-	06/16/17 09:25	1,9040C	VB
Nitrogen, Ammonia	4.70		mg/l	0.075	0.022	1	06/19/17 20:30	06/20/17 21:17	121,4500NH3-BH	AT
Nitrogen, Nitrite	ND		mg/l	0.050	0.010	1	-	06/16/17 22:15	44,353.2	MR
Nitrogen, Total Kjeldahl	5.62		mg/l	0.300	0.066	1	06/20/17 17:39	06/20/17 20:44	4,351.3/1 (M)	AT
Dissolved Oxygen	4.2		mg/l	0.10	0.10	1	-	06/16/17 17:10	121,4500O-C	WR
Chemical Oxygen Demand	8.7	J	mg/l	10	2.7	1	06/19/17 22:30	06/20/17 00:53	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	06/17/17 00:05	06/21/17 18:08	121,5210B	CW
Total Organic Carbon	3.16		mg/l	0.500	0.114	1	-	06/16/17 07:51	121,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.004	1	06/19/17 11:22	06/19/17 14:59	4,420.1	AW
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/16/17 04:00	06/16/17 04:15	1,7196A	KA
Oxidation/Reduction Potential	190		mv	-	NA	1	-	06/16/17 08:39	12,1498	VB
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.329		mg/l	0.050	0.009	1	-	06/18/17 19:34	44,300.0	JC
Chloride	59.9		mg/l	25.0	4.20	50	-	06/18/17 02:55	44,300.0	JC
Sulfate	26.4		mg/l	1.00	0.160	1	-	06/18/17 19:34	44,300.0	JC



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1013757-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/16/17 04:00	06/16/17 04:12	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1013778-1										
Turbidity	ND		NTU	0.20	0.20	1	-	06/16/17 05:17	44,180.1	KA
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1013837-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	06/16/17 07:51	121,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014043-1										
Nitrogen, Nitrite	ND		mg/l	0.050	0.010	1	-	06/16/17 21:40	44,353.2	MR
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014055-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	06/17/17 00:05	06/21/17 18:08	121,5210B	CW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014073-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	06/16/17 20:51	121,2320B	MR
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014214-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	06/17/17 12:03	06/19/17 14:57	1,9010C/9012B	LK
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1014240-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.022	1	06/17/17 15:22	06/19/17 22:18	121,4500NH3-BH	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014536-1										
Phenolics, Total	ND		mg/l	0.030	0.004	1	06/19/17 11:22	06/19/17 15:44	4,420.1	AW
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1014634-1										
Chloride	ND		mg/l	0.500	0.083	1	-	06/17/17 20:43	44,300.0	JC
Sulfate	ND		mg/l	1.00	0.160	1	-	06/17/17 20:43	44,300.0	JC
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1014634-1										
Bromide	ND		mg/l	0.050	0.009	1	-	06/17/17 20:43	44,300.0	JC
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1014655-1										
Bromide	ND		mg/l	0.050	0.009	1	-	06/18/17 17:58	44,300.0	ED
Chloride	ND		mg/l	0.500	0.083	1	-	06/18/17 17:58	44,300.0	ED
Sulfate	ND		mg/l	1.00	0.160	1	-	06/18/17 17:58	44,300.0	ED
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1014697-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.022	1	06/19/17 20:30	06/20/17 21:13	121,4500NH3-BH	AT



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014720-1										
Chemical Oxygen Demand	ND		mg/l	10	2.7	1	06/19/17 22:30	06/20/17 00:49	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014803-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	06/20/17 12:30	121,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014871-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.300	0.022	1	06/20/17 17:39	06/20/17 20:41	4,351.3/.1 (M)	AT



Serial_No:06231715:09

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013757-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013762-1								
Specific Conductance	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013778-2								
Turbidity	105		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013837-2								
Total Organic Carbon	95		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013886-1								
Oxidation/Reduction Potential	101		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013898-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014043-2								
Nitrogen, Nitrite	100		-		90-110	-		20

Serial_No:06231715:09

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014055-2					
BOD, 5 day	86	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014073-2					
Alkalinity, Total	105	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014214-2 WG1014214-3					
Cyanide, Total	99	96	85-115	3	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1014240-2					
Nitrogen, Ammonia	100	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014636-2					
Phenolics, Total	91	-	70-130	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG1014634-2					
Bromide	92	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	98	-	90-110	-	

Serial_No:06231715:09

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 04-02 Batch: WG1014665-2					
Bromide	93	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1014697-2					
Nitrogen, Ammonia	88	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014720-2					
Chemical Oxygen Demand	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014803-2					
Solids, Total Dissolved	96	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014871-2					
Nitrogen, Total Kjeldahl	101	-	78-122	-	

Serial_No:06231715:09

Matrix Spike Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1013757-4 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.)												
Chromium, Hexavalent	ND	0.1	0.085	85	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1013837-4 QC Sample: L1720218-01 Client ID: MS Sample												
Total Organic Carbon	3.28	8	10.9	95	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014043-4 QC Sample: L1720155-02 Client ID: MS Sample												
Nitrogen, Nitrite	ND	4	1.0	25	Q	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014055-4 QC Sample: L1720155-02 Client ID: MS Sample												
BOD, 5 day	ND	100	110	114	-	-	-	-	50-145	-	-	35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014073-4 QC Sample: L1719683-01 Client ID: MS Sample												
Alkalinity, Total	22.4	100	123	101	-	-	-	-	86-116	-	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014214-4 WG1014214-5 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.)												
Cyanide, Total	ND	0.2	0.188	94	-	0.203	102	-	80-120	8	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014240-4 QC Sample: L1700006-76 Client ID: MS Sample												
Nitrogen, Ammonia	4.39	4	8.02	91	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014536-4 QC Sample: L1700006-74 Client ID: MS Sample												
Phenolics, Total	ND	0.4	0.43	107	-	-	-	-	70-130	-	-	20

Serial_No:06231715:09

Matrix Spike Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014634-3 WG1014634-4 QC Sample: L1720117-13 Client ID: MS Sample									
Bromide	0.035J	0.4	0.360	90	0.391	97	90-110	8	20
Chloride	27.1	4	29.9	70	31.9	120	90-110	6	18
Sulfate	2.39	8	10.7	104	10.4	100	90-110	3	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014655-3 QC Sample: L1720218-06 Client ID: MS Sample									
Bromide	0.581	4	3.86	82	-	-	90-110	-	20
Chloride	88.1	40	125	92	-	-	90-110	-	18
Sulfate	269.	80	343	93	-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1014697-4 QC Sample: L1720234-02 Client ID: RW-17-1 (END)									
Nitrogen, Ammonia	4.70	4	8.30	90	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014720-3 QC Sample: L1719771-07 Client ID: MS Sample									
Chemical Oxygen Demand	250	476	640	82	-	-	90-110	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014871-4 QC Sample: L1720218-01 Client ID: MS Sample									
Nitrogen, Total Kjeldahl	0.886	8	8.16	93	-	-	77-111	-	24

Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013757-3	QC Sample: L1720234-02	Client ID: RW-17-1 (END)		
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013762-2	QC Sample: L1720193-01	Client ID: DUP Sample		
Specific Conductance	250	250	umhos/cm	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013778-3	QC Sample: L1720234-01	Client ID: RW-17-1 (1.5 HR.)		
Turbidity	21	21	NTU	0		13
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013837-3	QC Sample: L1720218-01	Client ID: DUP Sample		
Total Organic Carbon	3.28	3.34	mg/l	2		20
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013896-2	QC Sample: L1720234-01	Client ID: RW-17-1 (1.5 HR.)		
Oxidation/Reduction Potential	200	200	mv	0		20
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013898-2	QC Sample: L1720234-02	Client ID: RW-17-1 (END)		
pH (H)	6.9	6.9	SU	0		5
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1013902-1	QC Sample: L1720218-01	Client ID: DUP Sample		
Color, Apparent	18	19	A.P.C.U.	5		
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG1014043-3	QC Sample: L1720155-02	Client ID: DUP Sample		
Nitrogen, Nitrite	ND	ND	mg/l	NC		20

Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
 Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014054-1 QC Sample: L1720264-01 Client ID: RW-17-1 (1.5 HR.)					
Dissolved Oxygen	2.8	3.2	mg/l	13	
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014055-3 QC Sample: L1720165-02 Client ID: DUP Sample					
BOD, 5 day	ND	ND	mg/l	NC	35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014073-3 QC Sample: L1719683-01 Client ID: DUP Sample					
Alkalinity, Total	22.4	22.2	mg CaCO3/L	1	10
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014240-3 QC Sample: L1700006-76 Client ID: DUP Sample					
Nitrogen, Ammonia	4.39	4.35	mg/l	1	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014536-3 QC Sample: L1700006-74 Client ID: DUP Sample					
Phenolics, Total	ND	ND	mg/l	NC	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014655-4 QC Sample: L1720218-06 Client ID: DUP Sample					
Bromide	0.581	0.579	mg/l	0	20
Chloride	88.1	87.6	mg/l	1	18
Sulfate	269.	268	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1014697-3 QC Sample: L1720234-02 Client ID: RW-17-1 (END)					
Nitrogen, Ammonia	4.70	4.72	mg/l	0	20

Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDEILL
Project Number: 2010-15

Lab Duplicate Analysis
 Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014720-4 QC Sample: L1719771-07 Client ID: DUP Sample					
Chemical Oxygen Demand	250	200	mg/l	22	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014803-3 QC Sample: L1720124-01 Client ID: DUP Sample					
Solids, Total Dissolved	660	630	mg/l	5	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014871-3 QC Sample: L1720215-01 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	0.686	0.738	mg/l	7	24

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Serial_No: 06231715:09
Lab Number: L1720234
Report Date: 06/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1720234-01A	Vial H2SO4 preserved	A	NA		2.3	Y	Absent		TOC-5310(28)
L1720234-01B	Vial H2SO4 preserved	A	NA		2.3	Y	Absent		TOC-5310(28)
L1720234-01C	Plastic 250ml unpreserved/No Headspace	A	NA		2.3	Y	Absent		ALK-T-2320(14)
L1720234-01D	Plastic 250ml NaOH preserved	A	>12	>12	2.3	Y	Absent		TCN-9010(14)
L1720234-01E	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		HARDT(180)
L1720234-01F	BOD bottle Powder Pillow preserved	A	N/A	N/A	2.3	Y	Absent		DO-4500(.3)
L1720234-01G	BOD bottle Powder Pillow preserved	A	N/A	N/A	2.3	Y	Absent		DO-4500(.3)
L1720234-01H	Plastic 500ml H2SO4 preserved	A	7	7	2.3	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-4500(28)
L1720234-01I	Amber 500ml H2SO4 preserved	A	<2	<2	2.3	Y	Absent		NY-TPHENOL-420(28)
L1720234-01J	Plastic 500ml unpreserved	A	7	7	2.3	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28)
L1720234-01K	Plastic 950ml unpreserved	A	7	7	2.3	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28)
L1720234-02A	Vial H2SO4 preserved	A	NA		2.3	Y	Absent		TOC-5310(28)
L1720234-02B	Vial H2SO4 preserved	A	NA		2.3	Y	Absent		TOC-5310(28)
L1720234-02C	Plastic 250ml unpreserved/No Headspace	A	NA		2.3	Y	Absent		ALK-T-2320(14)
L1720234-02D	Plastic 250ml NaOH preserved	A	>12	>12	2.3	Y	Absent		TCN-9010(14)
L1720234-02E	Plastic 250ml HNO3 preserved	A	<2	<2	2.3	Y	Absent		HARDT(180)
L1720234-02F	BOD bottle Powder Pillow preserved	A	N/A	N/A	2.3	Y	Absent		DO-4500(.3)
L1720234-02G	BOD bottle Powder Pillow preserved	A	N/A	N/A	2.3	Y	Absent		DO-4500(.3)
L1720234-02H	Plastic 500ml H2SO4 preserved	A	7	7	2.3	Y	Absent		TKN-351(28),COD-410-LOW(28),NH3-4500(28)

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Serial_No: 06231715:09
Lab Number: L1720234
Report Date: 06/23/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1720234-02I	Amber 500ml H2SO4 preserved	A	<2	<2	2.3	Y	Absent		NY-TPHENOL-420(28)
L1720234-02J	Plastic 500ml unpreserved	A	7	7	2.3	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28)
L1720234-02K	Plastic 950ml unpreserved	A	7	7	2.3	Y	Absent		SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28)

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720234**Project Number:** 2010-15**Report Date:** 06/23/17**Data Qualifiers**

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: **Company-wide**
 Department: **Quality Assurance**
 Title: **Certificate/Approval Program Summary**

ID No.: **17873**
 Revision 10
 Published Date: 1/16/2017 11:00:05 AM
 Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO₄-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

APPENDIX G

ANALYTICAL REPORT – SOIL CUTTINGS



ANALYTICAL REPORT

Lab Number:	L1720513
Client:	Sterling Environmental Eng 24 Wade Road Latham, NY 12110
ATTN:	Tom Johnson
Phone:	(518) 456-4900
Project Name:	ORANGE COUNTY LANDFILL
Project Number:	2010-15
Report Date:	06/23/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:06231718:36

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1720513-01	RW-17-1 (SOIL CUTTINGS)	SOIL	NEW HAMPTON, NY	06/15/17 16:00	06/16/17

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 06/23/17

ORGANICS

VOLATILES

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Analytical Method:** 1,8260C**Analytical Date:** 06/23/17 13:01**Analyst:** BD**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/22/17 11:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						

Chloroform	1.6	J	ug/l	7.5	1.6	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	108		70-130
dibromofluoromethane	93		70-130

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/23/17 10:38
Analyst: BD
TCLP/SPLP Extraction Date: 06/22/17 11:40

Extraction Date: 06/22/17 11:40

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1016372-5					
Chloroform	2.0	J	ug/l	7.5	1.6
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	2.1	J	ug/l	25	1.9
2-Butanone	ND		ug/l	50	19

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	112		70-130
dibromofluoromethane	92		70-130

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1016372-3 WG1016372-4								
Chloroform	110		98		70-130	12		20
Carbon tetrachloride	88		74		63-132	17		20
Tetrachloroethene	97		93		70-130			20
Chlorobenzene	97		98		75-130			25
1,2-Dichloroethane	96		87		70-130	10		20
Benzene	120		100		70-130	18		25
Vinyl chloride	110		99		55-140	11		20
1,1-Dichloroethene	110		110		61-145	0		25
Trichloroethene	98		91		70-130			25
1,4-Dichlorobenzene	90		85		70-130	6		20
2-Butanone	90		77		63-138	16		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		96		70-130
Toluene-d8	101		105		70-130
4-Bromofluorobenzene	103		100		70-130
dibromofluoromethane	93		92		70-130

SEMIVOLATILES

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 3510C**Analytical Method:** 1,8270D**Extraction Date:** 06/21/17 02:44**Analytical Date:** 06/22/17 05:14**Analyst:** RC**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/19/17 21:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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TCLP Semivolatiles by EPA 1311 - Westborough Lab

Hexachlorobenzene	ND		ug/l	10	2.9	1
2,4-Dinitrotoluene	ND		ug/l	25	4.2	1
Hexachlorobutadiene	ND		ug/l	10	3.6	1
Hexachloroethane	ND		ug/l	10	3.4	1
Nitrobenzene	ND		ug/l	10	3.8	1
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	1
Pentachlorophenol	ND		ug/l	50	17.	1
2-Methylphenol	ND		ug/l	25	5.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	1
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	1
Pyridine	ND		ug/l	18	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	64		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	70		33-120

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/17 02:11
Analyst: RC
TCLP/SPLP Extraction Date: 06/19/17 21:35

Extraction Method: EPA 3510C
Extraction Date: 06/21/17 02:44

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015200-1					
Hexachlorobenzene	ND		ug/l	10	2.9
2,4-Dinitrotoluene	ND		ug/l	25	4.2
Hexachlorobutadiene	ND		ug/l	10	3.6
Hexachloroethane	ND		ug/l	10	3.4
Nitrobenzene	ND		ug/l	10	3.8
2,4,6-Trichlorophenol	ND		ug/l	25	3.4
Pentachlorophenol	ND		ug/l	50	17.
2-Methylphenol	ND		ug/l	25	5.1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6
2,4,5-Trichlorophenol	ND		ug/l	25	3.6
Pyridine	ND		ug/l	18	9.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	59		10-120
4-Terphenyl-d14	62		33-120

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015200-2 WG1015200-3								
Hexachlorobenzene	56		62		40-140	10		30
2,4-Dinitrotoluene	66		72		40-132	9		30
Hexachlorobutadiene	55		61		28-111	10		30
Hexachloroethane	55		63		21-105	14		30
Nitrobenzene	70		73		40-140	4		30
2,4,6-Trichlorophenol	64		69		30-130	8		30
Pentachlorophenol	53		59		9-103	11		30
2-Methylphenol	69		73		30-130	6		30
3-Methylphenol/4-Methylphenol	69		73		30-130	6		30
2,4,5-Trichlorophenol	63		70		30-130	11		30
Pyridine	40		46		10-66	14		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		67		21-120
Phenol-d6	61		66		10-120
Nitrobenzene-d5	70		75		23-120
2-Fluorobiphenyl	60		63		15-120
2,4,6-Tribromophenol	61		65		10-120
4-Terphenyl-d14	59		65		33-120

PCBS

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 3510C**Analytical Method:** 1,8082A**Extraction Date:** 06/21/17 02:47**Analytical Date:** 06/21/17 19:53**Cleanup Method:** EPA 3665A**Analyst:** JA**Cleanup Date:** 06/21/17**Percent Solids:** 81%**Cleanup Method:** EPA 3660B**TCLP/SPLP Ext. Date:** 06/19/17 21:35**Cleanup Date:** 06/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP PCBs by EPA 1311 - Westborough Lab							
Aroclor 1016	ND		ug/l	2.50	0.330	1	A
Aroclor 1221	ND		ug/l	2.50	0.320	1	A
Aroclor 1232	ND		ug/l	2.50	0.185	1	A
Aroclor 1242	ND		ug/l	2.50	0.360	1	A
Aroclor 1248	ND		ug/l	2.50	0.305	1	A
Aroclor 1254	ND		ug/l	2.50	0.205	1	A
Aroclor 1260	ND		ug/l	2.50	0.190	1	A
Aroclor 1262	ND		ug/l	2.50	0.175	1	A
Aroclor 1268	ND		ug/l	2.50	0.225	1	A
PCBs, Total	ND		ug/l	2.50	0.175	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/22/17 00:01
Analyst: JA
TCLP/SPLP Extraction Date: 06/19/17 21:35

Extraction Method: EPA 3510C
Extraction Date: 06/21/17 02:47
Cleanup Method: EPA 3665A
Cleanup Date: 06/21/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/21/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP PCBs by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015201-1						
Aroclor 1016	ND		ug/l	2.50	0.330	A
Aroclor 1221	ND		ug/l	2.50	0.320	A
Aroclor 1232	ND		ug/l	2.50	0.185	A
Aroclor 1242	ND		ug/l	2.50	0.360	A
Aroclor 1248	ND		ug/l	2.50	0.305	A
Aroclor 1254	ND		ug/l	2.50	0.205	A
Aroclor 1260	ND		ug/l	2.50	0.190	A
Aroclor 1262	ND		ug/l	2.50	0.175	A
Aroclor 1268	ND		ug/l	2.50	0.225	A
PCBs, Total	ND		ug/l	2.50	0.175	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	101		30-150	B

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP PCBs by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015201-2 WG1015201-3									
Aroclor 1016	87		84		40-140	4		50	A
Aroclor 1260	95		83		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		79		30-150	A
Decachlorobiphenyl	93		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		85		30-150	B
Decachlorobiphenyl	109		106		30-150	B



PESTICIDES

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 3510C**Analytical Method:** 1,8081B**Extraction Date:** 06/21/17 01:00**Analytical Date:** 06/22/17 22:06**Analyst:** DM**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/19/17 21:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 8151A**Analytical Method:** 1,8151A**Extraction Date:** 06/21/17 06:05**Analytical Date:** 06/21/17 21:19**Analyst:** SL**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/19/17 21:35**Methylation Date:** 06/21/17 15:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	62		30-150	A
DCAA	42		30-150	B

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/22/17 21:40
Analyst: KEG
TCLP/SPLP Extraction Date: 06/19/17 21:35

Extraction Method: EPA 3510C
Extraction Date: 06/20/17 23:38

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015180-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/21/17 20:00
Analyst: SL
TCLP/SPLP Extraction Date: 06/19/17 21:35
Methylation Date: 06/21/17 15:15

Extraction Method: EPA 8151A
Extraction Date: 06/21/17 06:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015225-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	50		30-150	B

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015180-2 WG1015180-3									
Lindane	90		102		30-150	12		20	A
Heptachlor	97		110		30-150	13		20	A
Heptachlor epoxide	87		106		30-150	20		20	A
Endrin	101		114		30-150	12		20	A
Methoxychlor	109		123		30-150	12		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		88		30-150	A
Decachlorobiphenyl	72		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		82		30-150	B
Decachlorobiphenyl	70		79		30-150	B

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015225-2 WG1015225-3									
2,4-D	94		92		30-150	2		25	A
2,4,5-TP (Silvex)	55		53		30-150	4		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	79		74		30-150	A
DCAA	62		56		30-150	B



METALS

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720513-01
Client ID: RW-17-1 (SOIL CUTTINGS)
Sample Location: NEW HAMPTON, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 06/15/17 16:00
Date Received: 06/16/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/19/17 21:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.036	J	mg/l	1.00	0.019	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS
Barium, TCLP	0.850		mg/l	0.500	0.021	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS
Chromium, TCLP	ND		mg/l	0.200	0.021	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS
Lead, TCLP	0.251	J	mg/l	0.500	0.027	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/22/17 15:56	06/22/17 21:53	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS
Silver, TCLP	ND		mg/l	0.100	0.028	1	06/21/17 13:15	06/21/17 18:28	EPA 3015	1,6010C	PS



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720513

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1015425-1										
Arsenic, TCLP	0.042	J	mg/l	1.00	0.019	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS
Barium, TCLP	ND		mg/l	0.500	0.021	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS
Chromium, TCLP	ND		mg/l	0.200	0.021	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS
Lead, TCLP	ND		mg/l	0.500	0.027	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS
Selenium, TCLP	ND		mg/l	0.500	0.035	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS
Silver, TCLP	ND		mg/l	0.100	0.028	1	06/21/17 13:15	06/21/17 16:54	1,6010C	PS

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/19/17 21:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1015953-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/22/17 15:56	06/22/17 21:49	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 06/19/17 21:35



Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab: Associated sample(s): 01 Batch: WG1015425-2								
Arsenic, TCLP	110		-		75-125	-		20
Barium, TCLP	102		-		75-125	-		20
Cadmium, TCLP	107		-		75-125	-		20
Chromium, TCLP	102		-		75-125	-		20
Lead, TCLP	101		-		75-125	-		20
Selenium, TCLP	117		-		75-125	-		20
Silver, TCLP	103		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab: Associated sample(s): 01 Batch: WG1015953-2								
Mercury, TCLP	109		-		80-120	-		

Serial_No:06231718:36

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015425-3 QC Sample: L1720286-01 Client ID: MS Sample												
Arsenic, TCLP	0.036J	1.2	1.22	102	-	-	-	-	75-125	-	-	20
Barium, TCLP	0.211J	20	18.7	94	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	0.037J	0.51	0.522	102	-	-	-	-	75-125	-	-	20
Chromium, TCLP	ND	2	1.82	91	-	-	-	-	75-125	-	-	20
Lead, TCLP	ND	5.1	4.72	92	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.28	107	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.475	95	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015953-3 QC Sample: L1720513-01 Client ID: RW-17-1 (SOIL CUTTINGS)												
Mercury, TCLP	ND	0.025	0.0255	102	-	-	-	-	80-120	-	-	20

Serial_No:06231718:36

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720513
Report Date: 06/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015425-4 QC Sample: L1720286-01 Client ID: DUP Sample						
Arsenic, TCLP	0.036J	0.037J	mg/l	NC		20
Barium, TCLP	0.211J	0.208J	mg/l	NC		20
Cadmium, TCLP	0.037J	0.036J	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015953-4 QC Sample: L1720513-01 Client ID: RW-17-1 (SOIL CUTTINGS)						
Mercury, TCLP	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Test Material Information****Source of Material:** Unknown**Description of Material:** Non-Metallic - Damp Clay**Particle Size:** Fine**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/23/17 03:00	1,1030	SB



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720513

Project Number: 2010-15

Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720513-01
 Client ID: RW-17-1 (SOIL CUTTINGS)
 Sample Location: NEW HAMPTON, NY
 Matrix: Soil

Date Collected: 06/15/17 16:00
 Date Received: 06/16/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.9		%	0.100	NA	1	-	06/17/17 12:51	121,2540G	RI
pH (H)	8.0		SU	-	NA	1	-	06/20/17 05:56	1,9045D	VB
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/17 19:20	06/21/17 21:15	1,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/17 19:20	06/21/17 21:07	1,7.3	TL



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720513

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1015538-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/17 19:20	06/21/17 21:14	1,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1015543-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/17 19:20	06/21/17 21:04	1,7.3	TL

Serial_No:06231718:36

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1014785-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1015538-2								
Cyanide, Reactive	58		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1015543-2								
Sulfide, Reactive	112		-		60-125	-		40

Serial_No:06231718:36

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720513
Report Date: 06/23/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014226-1 QC Sample: L1720305-01 Client ID: DUP Sample						
Solids, Total	83.1	83.8	%			20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014785-2 QC Sample: L1720520-01 Client ID: DUP Sample						
pH	7.8	7.8	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1015885-3 QC Sample: L1720626-02 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1015543-3 QC Sample: L1720626-02 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Serial_No: 06231718:36
Lab Number: L1720513
Report Date: 06/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1720513-01A	Vial Large Septa unpreserved (4oz)	A	NA		5.3	Y	Absent		TCLP-EXT-ZHE(14)
L1720513-01B	Glass 500ml/16oz unpreserved	A	NA		5.3	Y	Absent		IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),REACTCN(14),TCLP-PCB(14)
L1720513-01U	Vial unpreserved Extracts	A	NA		5.3	Y	Absent		TCLP-VOA(14)
L1720513-01V	Vial unpreserved Extracts	A	NA		5.3	Y	Absent		TCLP-VOA(14)
L1720513-01W	Amber 1000ml unpreserved Extracts	A	NA		5.3	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L1720513-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1720513-01X9	Tumble Vessel	A	NA		5.3	Y	Absent		

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS/D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**Data Qualifiers**

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: **Company-wide**
 Department: **Quality Assurance**
 Title: **Certificate/Approval Program Summary**

ID No.: **17873**
 Revision 10
 Published Date: 1/16/2017 11:00:05 AM
 Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL **EPA 245.1** Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

APPENDIX H

CONCEPTUAL PLAN - HDD GROUNDWATER RECOVERY SYSTEM

DESCRIPTION

These specifications relate to the Horizontal Directional Drilling (HDD) work identified by the plans. The installation is according to the sizes and limits shown on the plans, and specified herein. The work includes all services, equipment, materials, tools, and labor for a complete and proper installation and testing.

HDD is a trenchless method for installing a pipe product. It is a multi-stage process consisting of site preparation, equipment setup, pilot bore, pipe product pulling through the drilled bore, and site restoration. Alignment of the bore is accomplished by proper orientation of the drill bit head as it is pushed through the ground by the drill rig. Orientation and tracking of the drill bit is determined by using an acceptable tracking system from a transmitter located within the drill bit head. When necessary, enlarge the pilot borehole (back reaming) to accommodate a pipe product larger than the pilot borehole size. Back ream ahead of or at the same time pulling the pipe product through the pilot borehole.

In order to minimize friction and prevent collapse of the borehole, introduce a soil stabilizing agent (drilling fluid) into the annular bore space from the front end of the drill bit. The rotation of the bit in the soil wetted by the drilling fluid creates slurry. The slurry stabilizes the surrounding soil, prevents the borehole from collapsing, and provides lubrication. Select or design the drilling fluids for the site's specific soil and groundwater conditions. Confine free flowing (escaping) slurry or drilling fluids at the ground surface during pullback or drilling.

MATERIALS

Pipe Product

The pipe product (4-inch I.D. SDR17 fused HDPE pipe) must comply with all applicable ASTM standards. Join the pipe sections so that the joined pipe sections are installable using HDD. Ensure that the joined pipe product have adequate strength and flexibility to withstand the installation stresses, overburden pressures, and operating pressures without compromising the structural stability of the pipe wall. Ensure that the pipe product meets the bend radius required for the proposed installation. Join the pipe sections so that the inner surfaces are flush and even.

The following material standards are the minimum in place standards. High Density Polyethylene (HDPE) - Non-Pressure [ASTM D 2447 ASTM D 3350 ASTM F714] or Pressure [ASTM D 2447 ASTM D 3350 ASTM F714 ASTM 2513].

Detection Wire: Electronic detection material for non-conductive piping products. Select tracer wire designed for HDD to conductively locate underground utility lines according to ASTM D-1248. Use either a continuous green sheathed solid conductor copper wire line (minimum #12 AWG for external placement) or a coated conductive tape. Select a minimum 12-gauge copper clad steel wire that is able to withstand the installation tension along the entire length of the line.

CONSTRUCTION

Submittals

Prior to beginning work, submit to the Engineer detailed procedures and schedule applicable to the work. The submittal will be comprehensive, realistic, and based on actual working conditions. The submittal will document the planning required to successfully complete the Project. The submittal will include

complete descriptions of procedures, equipment, personnel, and if applicable, supporting material, for the following:

- Drilling operations - describe the pilot hole drilling procedure, the reaming operation, the pullback procedure, and illustrate the plan.
- Profile of the bore plotted at a scale appropriate for the crossing and acceptable to the Engineer.
- HDD site layout including entry and exit points.
- Directional drilling equipment list includes: drilling rig, drill bit, back reamer, mud mixing and pumping systems, downhole tools, guidance system, and rig safety system. Provide calibration records for guidance equipment.
- Drilling fluid management plan - drilling fluid types and specifications, cleaning and recycling equipment, estimated flow rates, procedures for minimizing drilling fluid escape, and the method/location for final disposal of waste drilling fluids. Provide the Material Safety Data Sheets (MSDS) for all drilling fluid additives that will be used.
- Collect and manage water and soils from drilling operation. Water / drilling slurry will be collected in the mud pit, solidified and disposed of off-site with insertion pit soils.
- Pipe storage and handling details.
- Pipeline assembly and installation procedures.
- MSDS of any potentially hazardous substances to be used.
- Contingency plans for possible problems.
- Develop well by jetting interior of 4-inch diameter HDPE with high pressure jetter.
- Install one concrete manhole structure at depth of approximately 16 feet below grade (where horizontal remediation well daylights). Cap other end of 4-inch diameter well. *Exact location and depth to be determined.*

Submit supporting calculations, certifications, or material demonstrating the strength of the pipe product for acceptance before the beginning of the installation. Submit for the Engineer's acceptance prior to construction, other pipe product material than those listed on the plans. Demonstrate that the proposed material satisfies the purpose of the utility and withstands the design and construction stresses and pressures.

If site conditions change and require modification, resubmit revised drilling plans to achieve successful installation.

Daily Reports and Operator Logs

Submit the Daily Reports to the Engineer within 24 hours. Include, in the Daily Reports, log of boring operations and guidance system for each drill rod added or withdrawn during drilling, reaming, and pullback. The log covers downhole tools and equipment in use, drilling fluid, fluid pumping rate, drilling head location. Cover, in the report, details of and perceived reasons for any unusual events and delays greater than one hour excluding normal breaks.

Record Drawings

At the completion of the HDD pipe product installation, the HDD contractor will provide the Engineer with marked up plans noting all deviations from the plans that result in change of location, material, type or size of work guided by the boring operations and guidance system log. Post, on the drawing, the x, y, and z coordinates of the starting and ending points of the line at minimum. Include in the marked up plans, the station number or reference to a permanent structure within the project right-of-way, name of person collecting data, including title, position and company name, detection method used, and elevations

and offset dimensions. Certify the accuracy of the drawing to the capability of the tracking system. The HDD contractor shall provide the Engineer with the marked up plans.

Installation

Site Preparation - Prior to any alterations to worksite, walk the area prior to the commencement of the HDD project and visually inspect the site for potential problems.

Utility Location - Contact Dig Safely New York at 1-800-962-7962 at least 72 hours, but no more than 10 working days (excluding weekends and legal holidays) before beginning Project work. Explore and locate existing underground utilities in the areas of Work. Verify the exact physical location and depth of existing utilities by exposing as needed. If utilities are to remain in place, provide adequate means of protecting the utility during excavation operations. Should uncharted or incorrectly charted piping or other utilities be encountered during the utility exploration and contact the Owner of the utilities. Contractor is responsible for repairing damaged utilities to the satisfaction of the utility owner. If the utility was accurately marked by the utility locator or on the drawing, repair it at no additional cost. If the damaged utility was not accurately marked by the utility locator or on the drawing, Owner adjusts the contract value and/or time accordingly.

Provide proper supervision of the HDD operations at all times. Have a representative who is thoroughly knowledgeable of the equipment, boring and the Owner procedures, present at the job site during the entire installation and available to address immediate concerns and emergency operations. Notify the Engineer 48 hours in advance of starting work. Do not begin installation until the Engineer is present at the job site and agrees that proper preparations have been made.

EQUIPMENT REQUIREMENTS

Match the HDD drill rig and its auxiliary pieces of equipment to the diameter and length of pipe product being installed and ensure that the drill rod can meet the bend radius required for the proposed installation. The directional drilling machine consists of a power system to rotate, push and pullback hollow drill pipe into the ground at variable angles while delivering a pressurized fluid mixture to a guidable drill head (bit). Select/design the power system to provide sufficient pressure to power the drilling operations through a leak-free hydraulic system. Anchor the directional drilling machine to the ground to withstand the pulling, pushing, and rotating pressure required to complete the HDD installation. Select a drilling fluid mixing system that is self-contained and closed with sufficient size to mix and deliver drilling fluid to the drill bit. The mixing system will continually agitate the drilling fluid during drilling operations. Select fluids delivery system capable of pumping drilling fluid with sufficient volume and pressure from the mixing tank through the drill rods to the drill head (bit).

Minimize potential damage from soil displacement/settlement/heave by limiting the borehole diameter compared to the pipe product. Select the back reamer size so it creates a large enough borehole to allow cuttings to transfer from the face of excavation to the surface with a minimum soil displacement.

Guidance System

Select an acceptable guidance system to locate and continuously and accurately track the drill head during the pilot bore. The guidance system must be capable of tracking the drill bit in the expected underground environment and at the depth shown on the plans. The acceptable methods include: walkover, wire line, Magnetic Guidance System (MGS) probe, proven (non-experimental) gyroscopic probe, or any other system as accepted by the Engineer. Select the guidance system and the drill rig to deliver the required

horizontal and vertical accuracy required for the pipe product. Use a locating and tracking system capable of ensuring that the proposed installation is executed as intended. If signal interference is encountered that significantly affects the ability to accurately track the drill bit, the Engineer may specify the use of a suitable tracking system. If the Owner informs the contractor about signal interference or it is reasonable to expect interference at the site prior to bidding; select a suitable tracking system without extra cost to the Owner; otherwise the Owner adjusts the contract value and time accordingly. Select the locating and tracking system to provide information on: (a) Clock and pitch information (b) depth (c) transmitter temperature (d) battery status (e) position (x,y) (f) azimuth, where direct overhead readings (walkover) are not possible (i.e. subaqueous or limited access transportation facility). Ensure proper calibration of all equipment before commencing directional drilling operation. Take necessary measures to ensure accurate record drawing. Install all facilities such that their location can be readily determined by electronic designation after installation.

Drilling Fluids

Use a drilling fluids mixture composed of potable water and stabilizing agent - usually bentonite and/or polymer and/or appropriate additives continuously pumped to the drill bit. Design/select the drilling fluid:

1. to transport the spoils;
2. maintain temperatures of bits and transmitter;
3. clean cuttings from drill bit and reamers;
4. reduce friction, pullback, and torque on drill rods and pipe product;
5. stabilize the borehole;
6. control groundwater pressure; and,
7. reduce migration of drilling fluids in soil.

Use water with pH between 6 and 10 and free of chlorine with calcium < 100ppm, sodium chloride < 500ppm, and chlorine < 50ppm. Hard water may be treated with soda ash to reach the required pH. Design the quantity and the mixture of drilling fluids to perform the preceding functions in the expected soil. Vary the fluid viscosity to best fit the encountered soil conditions.

Do not use any other chemicals or polymer surfactants in the drilling fluid without written consent from the Engineer. Certify to the Engineer in writing that any added chemicals are environmentally safe and not harmful or corrosive to the pipe product and the environment. Approvals and permits are required for obtaining water from such sources as streams, rivers, ponds or fire hydrants. Any water source used other than potable water requires a pH test.

Drilling Operations

Prior to the start of the boring operation, survey the work site with x, y, z coordinates at control point at 100/LF intervals at minimum along the planned bore path. Provide stakes at offset distances (left or right) from the centerline at these control points and at all known existing utility crossings. Submit this information to the Owner at least 24 hours before the start of pilot bore operations.

Drill the pilot hole along the path shown on the plans and profile drawings within the allowable tolerance of the type of utility (Sheets 1-5). Provide and maintain instrumentation necessary to accurately locate the pilot hole (both horizontal and vertical placements). Ensure adequate removal of soil cuttings and stability of the borehole by monitoring the drilling fluids parameters such as the pumping rate, pressures, viscosity and density during the pilot bore, back reaming, and pipe product installation. Relief holes can be used as necessary to relieve excess pressure down hole. Obtain the Engineer's approval of the location and all conditions necessary to construct relief holes. Maintain proper disposition of drilling fluids and minimize inconvenience to other facility users.

To minimize heaving during pullback, determine the pullback rate in order to maximize the removal of soil cuttings without building excess downhole pressure. Contain excess drilling fluids at entry and exit points until the recycle, vacuum, or removal from the site during drilling operations. Ensure that entry and exit containments are of sufficient size to contain the expected return of drilling fluids and soil cuttings. Carry out excavation and backfill for entry, exit, recovery pits, connection pits, slurry sump pits, or any other excavation as specified.

Ensure that all drilling fluids are disposed of or recycled in a manner acceptable to the appropriate local, State, or federal regulatory agencies. Remove any excess material upon completion of the bore. Do not continue drilling without the Engineer's consent.

Install all facilities such that their location can be readily determined by electronic designation after installation. For non-conductive installations, attach a continuous conductive tracking (tracer wire) materials, either externally, internally or integral with the product. Tracking conductors must extend two feet beyond bore termini. Test conductors for continuity. Within 48 hours of completing the installation, clean the work site of all excess slurry or spoils, demobilize equipment, and ensure that the site is safe and secured.

Environmental Protection

Take all necessary measures to eliminate the discharge of water, drilling mud, and cuttings to nearby waterways during the HDD work. If applicable, provide equipment and procedures to maximize the recirculation or reuse of drilling mud to minimize waste.

Damage Restoration

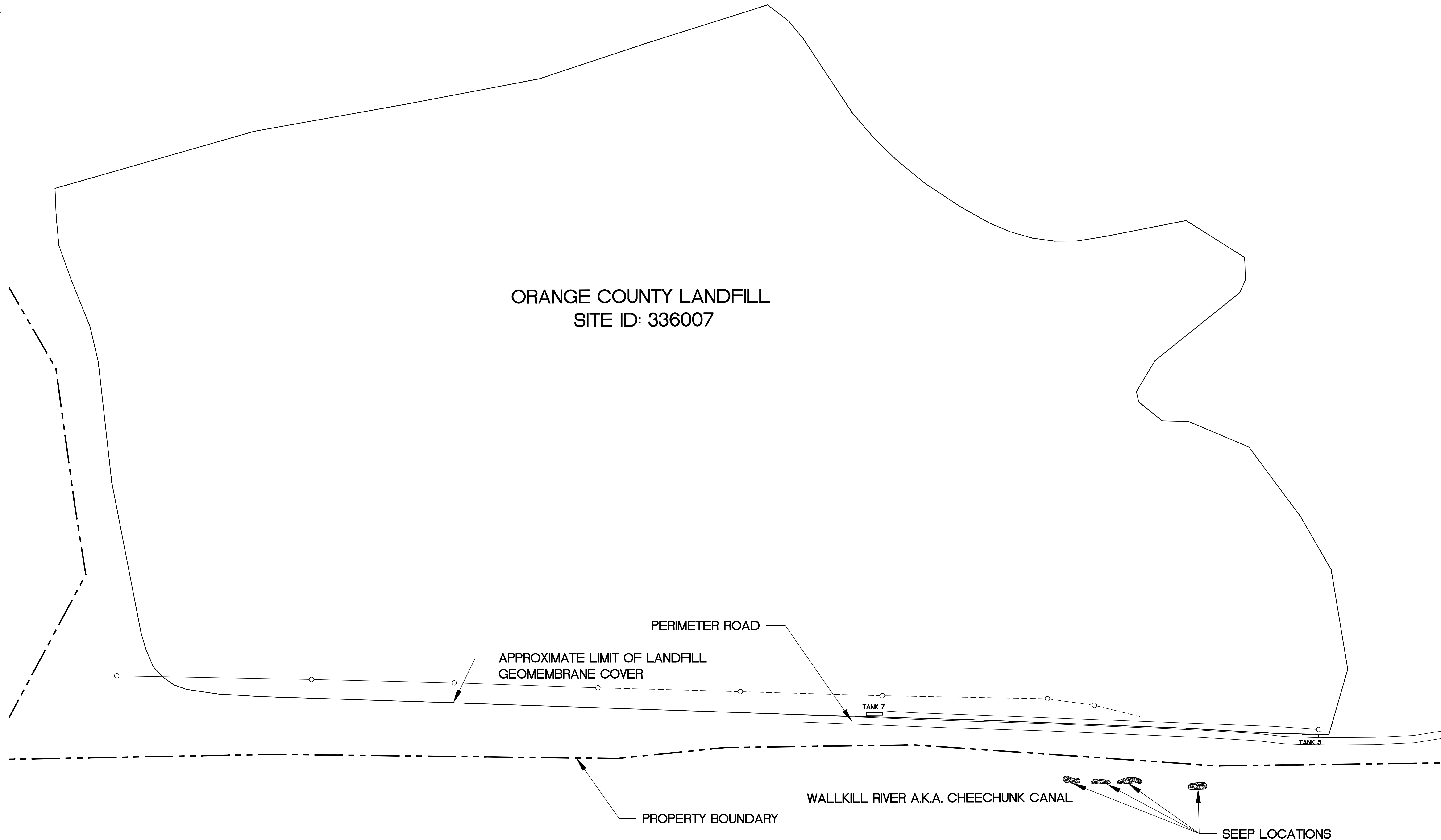
Take responsibility for restoration of any damage caused by heaving, settlement, separation of pavement, escaping drilling fluid, or from the directional drilling operation. If the negligence of the contractor causes damage to any facility, restore the facility to its original conditions or better at no additional cost to the Owner.

TESTING

Upon completion of the directional bore, test tracer wire continuity for each bore before acceptance.

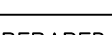
METHOD OF MEASUREMENT

The Engineer will measure installed product by the number of feet in place measured from center-to-center of appurtenant small structures, connection points, or between open ends inclusive of lengths of pipe bends and branches. The Engineer will not deduct for catch basins, inlets, or manholes that are 6 feet or less across, measured in the direction of flow. Where the location of an appurtenance, connection point, or an open end is changed with the approval of the Engineer, the Engineer will measure the length placed.



UNAUTHORIZED ALTERATION OR ADDITION
TO THIS DRAWING IS A VIOLATION OF
SECTION 7209, SUBDIVISION 2 OF THE
NEW YORK STATE EDUCATION LAW.

PROJECT	
PROJ. ENGR.: MPM	
PROJ. NO.: 2010-15	
PREPARED BY: MAW	
DRAFTED BY: TAS	
CHECKED BY: PJK	
APPROVED BY: MPM	
DATUM:	SEE MAP REFERENCE
CONTOUR INTERVAL =	2 FEET



STERLING
Sterling Environmental Engineering, P.C.
24 Wade Road • Latham, New York 12110

DATE: 11/2/15 SCALE: 1" = 100' DWG. NO. 2010-15101 SHEET 1 OF 5

[illegible]

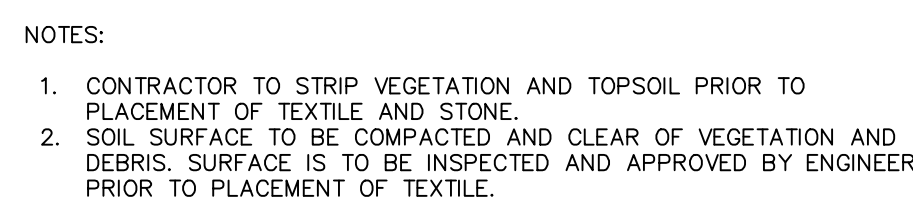
UNAUTHORIZED ALTERATION OR ADDITION
TO THIS DRAWING IS A VIOLATION OF
SECTION 7209, SUBDIVISION 2 OF THE
NEW YORK STATE EDUCATION LAW

PROJECT	
PROJ. ENGR.:	MPM
PROJ. NO.:	2010-15
PREPARED BY:	MAW
DRAFTED BY:	TAS
CHECKED BY:	PJK
APPROVED BY:	MPM
DATUM:	NA
CONTOUR INTERVAL = NA FE	

DATE: 11/2/2015 SCALE: 1" = 20' DWG. NO. 2010-15102 SHEET 2 OF 5



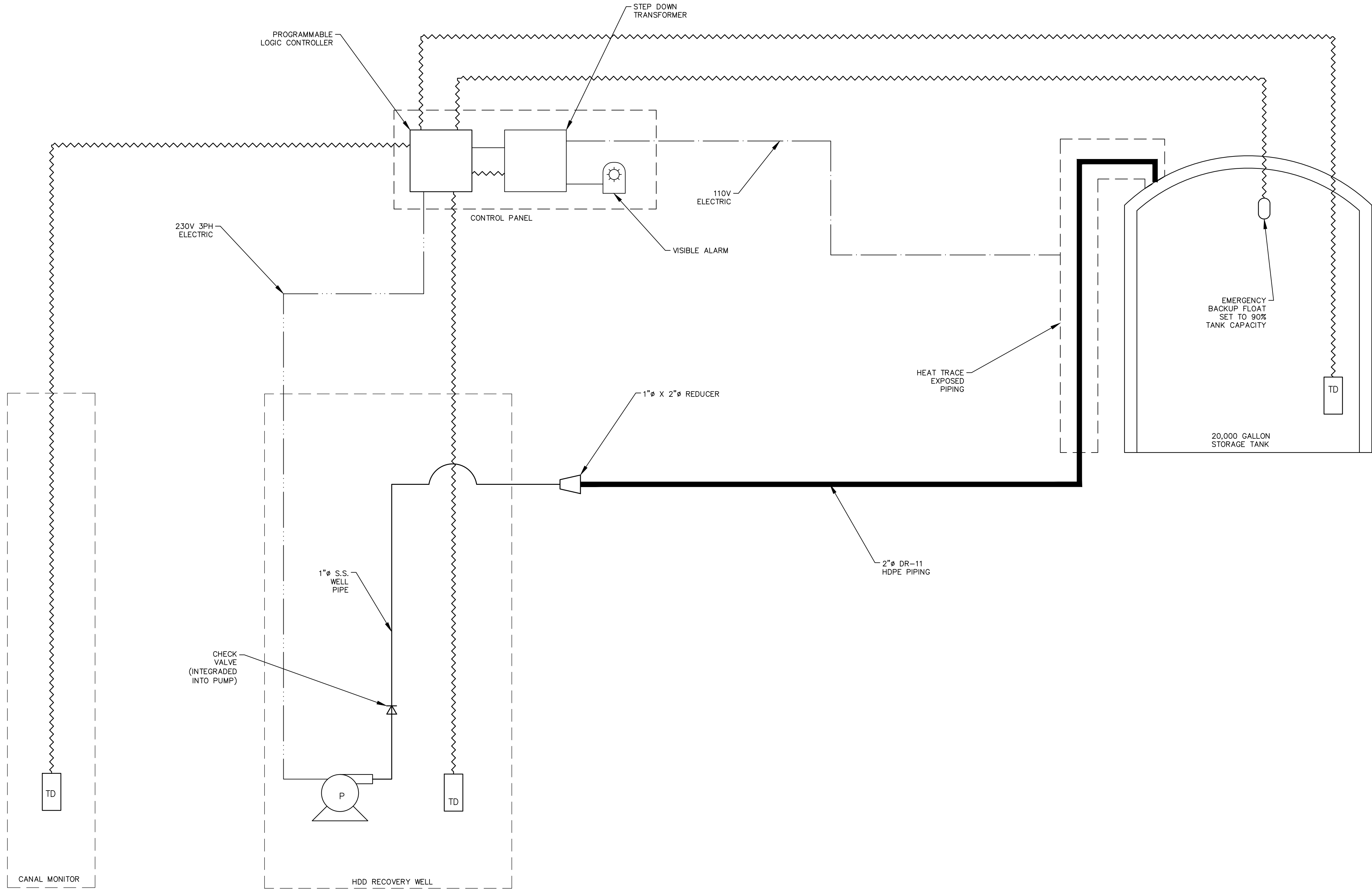
1. ORANGE COUNTY TO SUPPLY 230V 3-PHASE POWER TO MAIN PUMP CONTROL ENCLOSURE
2. CONTRACTOR TO FIELD FABRICATE POST AND FRAMING CHANNEL SECURELY SUPPORT ALL ENCLOSURES. ADDITIONAL POSTS AND CHANNELS SHALL BE USED AS NEEDED.



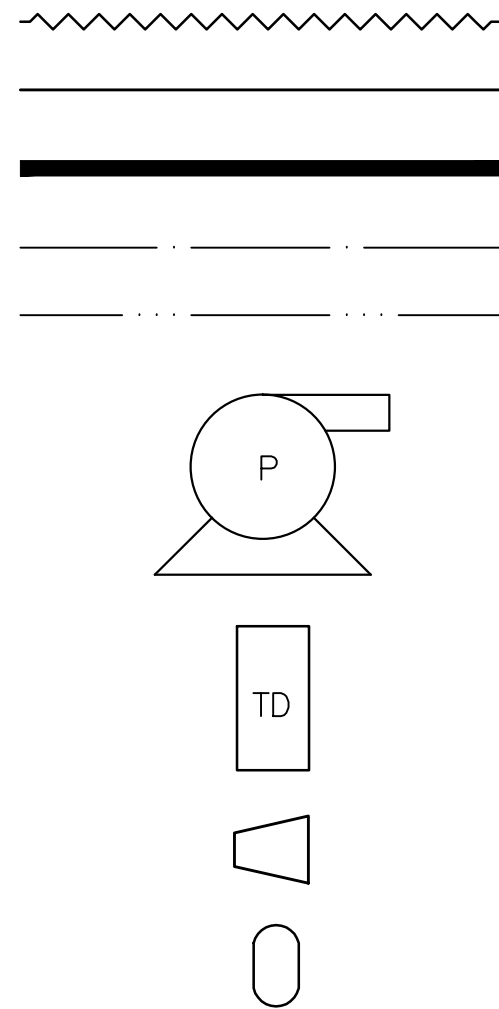
NOTE: SEE SHEET 2 OF 5 FOR BOLLARD LOCATIONS.



PROJECT DETAILS			
HDD RECOVERY WELL INSTALLATION & SEEP MITIGATION			
ORANGE COUNTY D.P.W.			
ORANGE COUNTY LANDFILL, NYSDEC SITE ID# 336007			
TOWN OF GOSHEN		ORANGE COUNTY, N.Y.	
			
Sterling Environmental Engineering, P.C.			
24 Wade Road • Latham, New York 12110			
DATE:	11/2/15	SCALE:	AS NOTED
DWG. NO.	2010-15104	SHEET	4 OF 5



LEGEND



- COMMUNICATIONS LINE
- 1" S.S. PIPE
- 2" HDPE DR-11 PIPE
- 110V ELECTRIC
- 230V 3 PHASE ELECTRIC
- WELL PUMP
GRUNDFOS SPESE8
STAINLESS WELL PUMP
- PRESSURE TRANSDUCER
OMEGA PX329
- REDUCER
- FLOAT SWITCH

LOGIC CONTROL ELEVATION SETTINGS

RECOVERY WELL:
PUMP ON - TBD
PUMP OFF - TBD
HIGH ALARM - TBD
HIGH HIGH ALARM - 378'

CANAL MONITOR:
PUMP OFF - 362'

STORAGE TANK:
PUMP OFF ELE - 1' FREEBOARD IN SUPPLIED TANK

NO.	DATE	RECORD OF WORK	DRN	CKD	APPR
1	9/14/17	ADDED HDD RECOVERY WELL	TAS	MPM	MPM

PROJECT
PROJ. ENGR.: MPM
PROJ. NO.: 2010-15
PREPARED BY: MAW
DRAFTED BY: TAS
CHECKED BY: PJK
APPROVED BY: MPM
DATUM: NA
CONTOUR INTERVAL = NA FEET

PIPING & INSTRUMENTATION DIAGRAM HDD RECOVERY WELL INSTALLATION & SEEP MITIGATION ORANGE COUNTY D.P.W. ORANGE COUNTY LANDFILL, NYSDEC SITE ID# 336007 TOWN OF GOSHEN ORANGE COUNTY, N.Y.	
STERLING Sterling Environmental Engineering, P.C. 24 Wade Road • Latham, New York 12110	
DATE: 11/2/15	SCALE: N.T.S. DWG. NO. 2010-15105 SHEET 5 OF 5

APPENDIX B

ORANGE COUNTY GROUNDWATER AND SURFACE WATER MONITORING DATA

Staff Gauge Inspection Report for Walkill River Near Orange County Landfill					
Note:					
		Staff Gauge zero mark approximately installed at elevation 356'.			
Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
4/29/2015	R.H.	3.00	359.00	Weekly Reading	Seep Covered
5/6/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
5/13/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
5/20/2015	R.H.	2.25	358.25	Weekly Reading	Seep Covered
5/27/2015	R.H.	2.75	358.75	Weekly Reading	Seep Covered
6/3/2015	K.S.	2.25	358.25	Weekly Reading	Seep Covered
6/10/2015	K.S.	2.25	358.25	Weekly Reading	Seep Covered
6/17/2015	R.H.	2.50	358.50	Weekly Reading	Seep Covered
6/24/2015	R.H.	2.25	358.25	Weekly Reading	Seep Covered
7/1/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
7/8/2015	R.H.	2.00	358.00	Weekly Reading	Seep Covered
7/15/2015	R.H.	1.25	357.25	Weekly Reading	Seep Covered
7/22/2015	R.H.	1.00	357.00	Weekly Reading	Seep Exposed
7/29/2015	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
8/5/2015	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
8/12/2015	G.L.P.	1.25	357.25	Weekly Reading / Day After Storm Event	Seep Covered
8/19/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
8/26/2015	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
9/2/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/9/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/11/2015	G.L.P.	0.75	356.75	Day After Storm Event	Seep Exposed
9/15/2015	G.L.P.	1.25	357.25	Day After Storm Event	Seep Covered
9/16/2015	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
9/23/2015	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/28/2016	G.L.P.	5.00	361.00	Weekly Reading / Day After Storm Event	Seep Covered
10/5/2015	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
10/8/2015	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
10/15/2015	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
10/16/2015	G.L.P.	1.25	357.25	Weekly Reading / Day After Storm Event	Seep Covered
10/29/2015	G.L.P.	4.50	360.50	Weekly Reading / Day After Storm Event	Seep Covered
11/4/2015	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
11/13/2015	G.L.P.	3.00	359.00	Weekly Reading / Day After Storm Event	Seep Covered
11/16/2015	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
11/18/2015	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
11/20/2015	G.L.P.	4.00	360.00	Day After Storm Event	Seep Covered
11/27/2015	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
12/3/2015	G.L.P.	4.50	360.50	Weekly Reading / Day After Storm Event	Seep Covered
12/4/2015	G.L.P.	4.00	360.00	Weekly Reading	Seep Covered
12/11/2015	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
12/18/2015	G.L.P.	4.75	360.75	Weekly Reading / Day After Storm Event	Seep Covered
12/24/2015	G.L.P.	6.00	362.00	Weekly Reading / Day After Storm Event	Seep Covered
12/31/2015	G.L.P.	6.00	362.00	Weekly Reading / Day After Storm Event	Seep Covered
1/8/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
1/13/2016	G.L.P.	5.00	361.00	Weekly Reading	Seep Covered
1/22/2016	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
1/29/2016	G.L.P.	2.50	358.50	Weekly Reading	Seep Covered
2/5/2016	G.L.P.	5.75	361.75	Weekly Reading	Seep Covered
2/8/2016	G.L.P.	3.75	359.75	Weekly Reading	Seep Covered

Staff Gauge Inspection Report for Walkill River Near Orange County Landfill					
Note:					
		Staff Gauge zero mark approximately installed at elevation 356'.			
Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
2/11/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
2/19/2016	G.L.P.	5.00	361.00	Weekly Reading	Seep Covered
2/22/2016	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
2/25/2016	G.L.P.	Above 8.50	#VALUE!	Weekly Reading	Seep Covered
2/29/2016	G.L.P.	7.75	363.75	Weekly Reading	Seep Covered
3/4/2016	G.L.P.	4.50	360.50	Weekly Reading	Seep Covered
3/11/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
3/16/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
3/18/2016	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
3/25/2016	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
4/1/2016	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
4/8/2016	G.L.P.	3.25	359.25	Weekly Reading / Day After Storm Event	Seep Covered
4/15/2016	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
4/22/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
4/29/2016	G.L.P.	1.50	357.50	Weekly Reading/Currently Raining	Seep Covered
5/4/2016	G.L.P.	5.25	361.25	Weekly Reading	Seep Covered
5/6/2016	G.L.P.	4.00	360.00	Weekly Reading/Day After Rain Storm	Seep Covered
5/12/2016	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
5/19/2016	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
5/27/2016	G.L.P.	1.25	357.25	Weekly Reading	Seep Covered
5/31/2016	G.L.P.	1.25	357.25	Weekly Reading	Seep Covered
6/9/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
6/13/2016	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
6/17/2016	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
6/24/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
6/28/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
7/1/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/5/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/8/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/15/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
7/21/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
7/29/2016	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
8/1/2016	G.L.P.	6.25	362.25	Weekly Reading / Day After Storm Event	Seep Covered
8/5/2016	G.L.P.	1.25	357.25	Day After Storm Event	Seep Covered
8/12/2016	G.L.P.	4.25	360.25	Day of Storm Event	Seep Covered
8/19/2016	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
8/25/2016	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
9/2/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/8/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/16/2016	G.L.P.	0.00	356.00	Weekly Reading	Seep Exposed
9/23/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
9/30/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/7/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/14/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/21/2016	G.L.P.	0.25	356.25	Weekly Reading	Seep Exposed
10/28/2016	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
11/4/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
11/10/2016	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed

Staff Gauge Inspection Report for Walkill River Near Orange County Landfill					
Note:					
		Staff Gauge zero mark approximately installed at elevation 356'.			
Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
11/17/2016	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
11/18/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
11/23/2016	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
11/30/2016	G.L.P.	4.25	360.25	Weekly Reading / Day After Storm Event	Seep Covered
12/1/2016	G.L.P.	7.75	363.75	Weekly Reading / Day After Storm Event	Seep Covered
12/9/2016	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
12/16/2016	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
12/23/2016	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
12/29/2016	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
1/5/2017	G.L.P.	4.50	360.50	Weekly Reading	Seep Covered
1/6/2017	G.L.P.	3.75	359.75	Weekly Reading	Seep Covered
1/11/2017	G.L.P.	2.50	358.50	Weekly Reading	Seep Covered
1/12/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
1/20/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
1/27/2017	G.L.P.	6.50	362.50	Weekly Reading	Seep Covered
2/3/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
2/10/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
2/17/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
2/24/2017	G.L.P.	5.00	361.00	Weekly Reading	Seep Covered
3/2/2017	G.L.P.	5.25	361.25	Weekly Reading	Seep Covered
3/10/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
3/17/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
3/24/2017	G.L.P.	5.00	361.00	Weekly Reading	Seep Covered
3/27/2017	G.L.P.	7.75	363.75	Weekly Reading	Seep Covered
3/30/2017	G.L.P.	Above 8.50	#VALUE!	Weekly Reading	Seep Covered
4/7/2017	G.L.P.	Above 8.50	#VALUE!	Weekly Reading / Day After Storm Event	Seep Covered
4/14/2017	G.L.P.	5.75	361.75	Weekly Reading	Seep Covered
4/20/2017	G.L.P.	4.50	360.50	Weekly Reading	Seep Covered
4/28/2017	G.L.P.	5.25	361.25	Weekly Reading	Seep Covered
5/4/2017	W.S	3.75	359.75	Weekly Reading	Seep Covered
5/12/2017	G.L.P.	3.25	359.25	Weekly Reading	Seep Covered
5/22/2017	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
5/26/2017	G.L.P.	7.50	363.50	Day After Storm Event	Seep Covered
6/2/2017	G.L.P.	4.25	360.25	Weekly Reading	Seep Covered
6/6/2017	G.L.P.	3.75	359.75	Day After Storm Event	Seep Covered
6/9/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
6/16/2017	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
6/20/2017	G.L.P.	8.50	364.50	Weekly Reading	Seep Covered
6/22/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
6/30/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
7/7/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
7/14/2017	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
7/21/2017	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
7/28/2017	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
8/4/2017	G.L.P.	3.00	359.00	Weekly Reading	Seep Covered
8/11/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
8/17/2017	G.L.P.	2.50	358.50	Weekly Reading	Seep Covered
8/25/2017	G.L.P.	1.25	357.25	Weekly Reading / Staff Gauge Repaired	Seep Covered

Staff Gauge Inspection Report for Walkill River Near Orange County Landfill					
Note:					
		Staff Gauge zero mark approximately installed at elevation 356'.			
Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
9/1/2017	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
9/8/2017	G.L.P.	2.25	358.25	Weekly Reading	Seep Covered
9/15/2017	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
9/22/2017	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
9/29/2017	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
10/6/2017	G.L.P.	0.50	356.50	Weekly Reading	Seep Exposed
10/12/2017	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
10/20/2017	G.L.P.	0.75	356.75	Weekly Reading	Seep Exposed
10/25/2017	G.L.P.	1.00	357.00	Weekly Reading	Seep Exposed
10/27/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
10/31/2017	G.L.P.	7.75	363.75	Day After Storm Event	Seep Covered
11/3/2017	G.L.P.	3.50	359.50	Weekly Reading	Seep Covered
11/9/2017	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
11/17/2017	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
11/22/2017	G.L.P.	1.75	357.75	Weekly Reading	Seep Covered
11/28/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
12/1/2017	G.L.P.	1.25	357.25	Weekly Reading	Seep Covered
12/8/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
12/14/2017	G.L.P.	1.50	357.50	Weekly Reading	Seep Covered
12/22/2017	G.L.P.	1.25	357.25	Weekly Reading	Seep Covered
1/5/2018	G.L.P.	2.00	358.00	Weekly Reading	Seep Covered
1/12/2018	G.L.P.	2.75	358.75	Weekly Reading	Seep Covered
1/18/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
1/26/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
2/2/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
2/9/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
2/16/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
2/23/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
3/2/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
3/9/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
3/16/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
3/23/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
3/30/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
4/6/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
4/13/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
4/20/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
4/27/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
5/4/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
5/11/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
5/18/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
5/25/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
5/31/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
6/8/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
6/14/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
6/22/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
6/29/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
7/6/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
7/13/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos

Staff Gauge Inspection Report for Walkill River Near Orange County Landfill					
Note:					
		Staff Gauge zero mark approximately installed at elevation 356'.			
Date / Initials		Staff Gauge Reading (Feet)	Approximate Elevation of water (Staff Gauge Reading + 356')	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
7/20/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
7/27/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
8/2/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
8/9/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
8/17/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
8/24/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
8/31/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
9/7/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
9/14/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
9/21/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
9/28/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
10/4/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
10/11/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
10/19/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
10/26/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
11/2/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
11/8/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
11/19/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
11/30/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
12/6/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
12/14/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
12/20/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
12/27/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
1/9/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
1/18/2018	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
2/1/2019	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
2/8/2019	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
2/22/2019	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Covered / Verify with Photos
3/1/2019	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos
3/8/2019	G.L.P.		No Staff Gauge	No Staff Gauge	Seep Exposed / Verify with Photos

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:

Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.

Date / Initials	Water Level Meter Reading (Feet)	Approximate Elevation of water (Respective Elevation from measuring point (feet) - Water Level Meter Reading (feet))	Reason for taking the Reading (Ex: Weekly Reading, or Storm Event Reading)	Additional Comments/Notes
07/29/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.85	361.25		
PZ 14-2 (381.84')	21.35	360.49		
PZ 14-3 (381.71')	21.25	360.46		
PZ 14-4 (381.70')	21.13	360.57		
PZ 14-5 (392.08')	30.73	361.35		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.57	361.38		
08/05/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.97	361.13		
PZ 14-2 (381.84')	21.47	360.37		
PZ 14-3 (381.71')	21.40	360.31		
PZ 14-4 (381.70')	21.25	360.45		Lots of ants came up with Probe.
PZ 14-5 (392.08')	30.85	361.23		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.67	361.28		

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
08/12/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.96	361.14		
PZ 14-2 (381.84')	21.42	360.42		
PZ 14-3 (381.71')	21.34	360.37		
PZ 14-4 (381.70')	21.21	360.49		
PZ 14-5 (392.08')	30.88	361.20		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.70	361.25		
MW-3B (386.25')	28.75	357.50		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.42	376.22		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.35	366.69		Measurement taken from lowest section on top of PVC well casing.
08/19/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.20	360.90		
PZ 14-2 (381.84')	21.72	360.12		
PZ 14-3 (381.71')	21.62	360.09		
PZ 14-4 (381.70')	21.43	360.27		
PZ 14-5 (392.08')	31.10	360.98		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.92	361.03		
MW-3B (386.25')	29.41	356.84		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.72	376.92		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.74	366.30		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
08/26/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.22	360.88		
PZ 14-2 (381.84')	21.67	360.17		
PZ 14-3 (381.71')	21.59	360.12		
PZ 14-4 (381.70')	21.41	360.29		
PZ 14-5 (392.08')	31.13	360.95		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.93	361.02		
MW-3B (386.25')	29.12	357.13		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.85	375.79		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.78	366.26		Measurement taken from lowest section on top of PVC well casing.
09/02/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.35	360.75		
PZ 14-2 (381.84')	21.80	360.04		
PZ 14-3 (381.71')	21.71	360.00		
PZ 14-4 (381.70')	21.55	360.15		
PZ 14-5 (392.08')	31.25	360.83		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	30.04	360.91		
MW-3B (386.25')	29.44	356.81		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.40	376.24		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.00	366.04		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
09/11/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.41	360.69		
PZ 14-2 (381.84')	21.84	360.00		
PZ 14-3 (381.71')	21.76	359.95		
PZ 14-4 (381.70')	21.57	360.13		
PZ 14-5 (392.08')	31.35	360.73		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	30.14	360.81		
MW-3B (386.25')	29.21	357.04		Measurement taken from top of black threaded section.
MH-5 (392.64')	17.01	375.63		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.12	365.92		Measurement taken from lowest section on top of PVC well casing.
09/16/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.31	360.79		
PZ 14-2 (381.84')	29.71	352.13		
PZ 14-3 (381.71')	21.64	360.07		
PZ 14-4 (381.70')	21.50	360.20		
PZ 14-5 (392.08')	31.21	360.87		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	30.05	360.90		
MW-3B (386.25')	28.75	357.50		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.54	377.10		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.07	365.97		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
09/23/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.54	360.56		
PZ 14-2 (381.84')	21.98	359.86		
PZ 14-3 (381.71')	21.87	359.84		
PZ 14-4 (381.70')	21.68	360.02		
PZ 14-5 (392.08')	31.43	360.65		
PZ 14-6 (390.95')	30.25	360.70		
MW-3B (386.25')	29.49	356.76		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.60	377.04		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.37	365.67		Measurement taken from lowest section on top of PVC well casing.
09/28/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.12	361.98		
PZ 14-2 (381.84')	20.11	361.73		
PZ 14-3 (381.71')	20.06	361.65		
PZ 14-4 (381.70')	20.05	361.65		
PZ 14-5 (392.08')	30.16	361.92		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.11	361.84		
MW-3B (386.25')	26.18	360.07		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.77	375.87		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.28	366.76		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/16/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.32	360.78		
PZ 14-2 (381.84')	21.67	360.17		
PZ 14-3 (381.71')	21.63	360.08		
PZ 14-4 (381.70')	21.49	360.21		
PZ 14-5 (392.08')	31.29	360.79		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	30.09	360.86		
MW-3B (386.25')	28.57	357.68		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.85	376.79		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.69	366.35		Measurement taken from lowest section on top of PVC well casing.
10/29/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.26	361.84		
PZ 14-2 (381.84')	20.29	361.55		
PZ 14-3 (381.71')	20.21	361.50		
PZ 14-4 (381.70')	20.23	361.47		
PZ 14-5 (392.08')	30.15	361.93		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.24	361.71		
MW-3B (386.25')	26.42	359.83		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.21	377.43		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.07	366.97		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/04/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.10	361.00		
PZ 14-2 (381.84')	21.39	360.45		
PZ 14-3 (381.71')	21.36	360.35		
PZ 14-4 (381.70')	21.22	360.48		
PZ 14-5 (392.08')	31.09	360.99		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.90	361.05		
MW-3B (386.25')	28.08	358.17		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.71	375.93		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.50	366.54		Measurement taken from lowest section on top of PVC well casing.
11/13/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.70	361.40		
PZ 14-2 (381.84')	20.87	360.97		
PZ 14-3 (381.71')	20.82	360.89		
PZ 14-4 (381.70')	20.75	360.95		
PZ 14-5 (392.08')	30.62	361.46		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.61	361.34		
MW-3B (386.25')	27.04	359.21		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.52	376.12		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.15	366.89		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/20/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.42	361.68		
PZ 14-2 (381.84')	20.43	361.41		
PZ 14-3 (381.71')	20.43	361.28		
PZ 14-4 (381.70')	20.41	361.29		
PZ 14-5 (392.08')	30.49	361.59		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.37	361.58		
MW-3B (386.25')	26.60	359.65		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.62	377.02		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.76	367.28		Measurement taken from lowest section on top of PVC well casing.
11/27/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.01	361.09		
PZ 14-2 (381.84')	21.28	360.56		
PZ 14-3 (381.71')	21.20	360.51		
PZ 14-4 (381.70')	21.12	360.58		
PZ 14-5 (392.08')	30.99	361.09		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.84	361.11		
MW-3B (386.25')	27.95	358.30		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.30	376.34		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.04	367.00		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/04/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.30	361.80		
PZ 14-2 (381.84')	20.39	361.45		
PZ 14-3 (381.71')	20.37	361.34		
PZ 14-4 (381.70')	20.29	361.41		
PZ 14-5 (392.08')	30.24	361.84		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.24	361.71		
MW-3B (386.25')	26.21	360.04		Measurement taken from top of black threaded section.
MH-5 (392.64')	11.21	381.43		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.50	367.54		Measurement taken from lowest section on top of PVC well casing.
12/11/2015 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.92	361.18		
PZ 14-2 (381.84')	21.16	360.68		
PZ 14-3 (381.71')	21.12	360.59		
PZ 14-4 (381.70')	21.01	360.69		
PZ 14-5 (392.08')	30.89	361.19		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.73	361.22		
MW-3B (386.25')	27.84	358.41		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.13	376.51		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.79	366.25		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/18/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.00	362.10		
PZ 14-2 (381.84')	20.02	361.82		
PZ 14-3 (381.71')	20.02	361.69		
PZ 14-4 (381.70')	19.95	361.75		
PZ 14-5 (392.08')	30.11	361.97		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.97	361.98		
MW-3B (386.25')	25.79	360.46		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.83	376.81		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.13	367.91		Measurement taken from lowest section on top of PVC well casing.
12/24/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.74	362.36		
PZ 14-2 (381.84')	19.66	362.18		
PZ 14-3 (381.71')	19.75	361.96		
PZ 14-4 (381.70')	19.64	362.06		
PZ 14-5 (392.08')	29.54	362.54		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.79	362.16		
MW-3B (386.25')	24.82	361.43		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.33	376.31		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.70	368.34		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/31/2015 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.23	362.87		
PZ 14-2 (381.84')	19.20	362.64		
PZ 14-3 (381.71')	19.27	362.44		
PZ 14-4 (381.70')	19.19	362.51		
PZ 14-5 (392.08')	29.15	362.93		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.31	362.64		
MW-3B (386.25')	24.44	361.81		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.67	376.97		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.34	368.70		Measurement taken from lowest section on top of PVC well casing.
01/08/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.31	361.79		
PZ 14-2 (381.84')	20.51	361.33		
PZ 14-3 (381.71')	20.49	361.22		
PZ 14-4 (381.70')	20.38	361.32		
PZ 14-5 (392.08')	30.28	361.80		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	29.13	361.82		
MW-3B (386.25')	27.15	359.10		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.35	377.29		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.97	368.07		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
01/13/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.32	362.78		
PZ 14-2 (381.84')	19.31	362.53		
PZ 14-3 (381.71')	19.34	362.37		
PZ 14-4 (381.70')	19.27	362.43		
PZ 14-5 (392.08')	29.33	362.75		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.27	362.68		
MW-3B (386.25')	25.01	361.24		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.79	376.85		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.11	368.93		Measurement taken from lowest section on top of PVC well casing.
01/22/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.98	362.12		
PZ 14-2 (381.84')	20.21	361.63		
PZ 14-3 (381.71')	20.19	361.52		
PZ 14-4 (381.70')	20.10	361.60		
PZ 14-5 (392.08')	29.98	362.10		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.84	362.11		
MW-3B (386.25')	26.85	359.40		Measurement taken from top of black threaded section.
MH-5 (392.64')	17.08	375.56		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.57	368.47		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Wallkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings are to be performed once a week.</i>				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
01/29/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.05	362.05		
PZ 14-2 (381.84')	20.31	361.53		
PZ 14-3 (381.71')	20.28	361.43		
PZ 14-4 (381.70')	20.19	361.51		
PZ 14-5 (392.08')	30.05	362.03		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.91	362.04		
MW-3B (386.25')	27.03	359.22		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.97	376.67		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.70	368.34		Measurement taken from lowest section on top of PVC well casing.
02/05/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.83	363.27		
PZ 14-2 (381.84')	18.80	363.04		
PZ 14-3 (381.71')	18.87	362.84		
PZ 14-4 (381.70')	18.80	362.90		
PZ 14-5 (392.08')	28.90	363.18		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	27.87	363.08		
MW-3B (386.25')	24.16	362.09		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.06	376.58		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.78	369.26		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
02/11/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.76	362.34		
PZ 14-2 (381.84')	19.98	361.86		
PZ 14-3 (381.71')	19.96	361.75		
PZ 14-4 (381.70')	19.88	361.82		
PZ 14-5 (392.08')	29.78	362.30		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.63	362.32		
MW-3B (386.25')	26.60	359.65		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.96	375.68		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.58	368.46		Measurement taken from lowest section on top of PVC well casing.
02/22/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.37	362.73		
PZ 14-2 (381.84')	19.49	362.35		
PZ 14-3 (381.71')	19.48	362.23		
PZ 14-4 (381.70')	19.42	362.28		
PZ 14-5 (392.08')	29.39	362.69		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.23	362.72		
MW-3B (386.25')	25.93	360.32		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.75	376.89		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.30	368.74		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
02/25/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.99	365.11		
PZ 14-2 (381.84')	16.66	365.18		
PZ 14-3 (381.71')	16.89	364.82		
PZ 14-4 (381.70')	16.88	364.82		
PZ 14-5 (392.08')	26.83	365.25		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	26.33	364.62		
MW-3B (386.25')	19.52	366.73		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.86	376.78		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.12	370.92		Measurement taken from lowest section on top of PVC well casing.
03/04/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.61	363.49		
PZ 14-2 (381.84')	18.70	363.14		
PZ 14-3 (381.71')	18.76	362.95		
PZ 14-4 (381.70')	18.67	363.03		
PZ 14-5 (392.08')	28.67	363.41		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	27.55	363.40		
MW-3B (386.25')	25.18	361.07		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.34	377.30		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.45	369.59		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
03/11/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.21	362.89		
PZ 14-2 (381.84')	19.48	362.36		
PZ 14-3 (381.71')	19.47	362.24		
PZ 14-4 (381.70')	19.41	362.29		
PZ 14-5 (392.08')	29.26	362.82		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.11	362.84		
MW-3B (386.25')	26.49	359.76		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.71	375.93		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.06	368.98		Measurement taken from lowest section on top of PVC well casing.
03/18/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.32	362.78		
PZ 14-2 (381.84')	19.64	362.20		
PZ 14-3 (381.71')	19.69	362.02		
PZ 14-4 (381.70')	19.58	362.12		
PZ 14-5 (392.08')	29.33	362.75		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.19	362.76		
MW-3B (386.25')	26.88	359.37		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.76	376.88		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.24	368.80		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
03/25/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.60	362.50		
PZ 14-2 (381.84')	20.01	361.83		
PZ 14-3 (381.71')	19.96	361.75		
PZ 14-4 (381.70')	19.90	361.80		
PZ 14-5 (392.08')	29.58	362.50		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.43	362.52		
MW-3B (386.25')	27.52	358.73		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.53	377.11		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.55	368.49		Measurement taken from lowest section on top of PVC well casing.
04/01/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.64	362.46		
PZ 14-2 (381.84')	20.28	361.56		
PZ 14-3 (381.71')	20.01	361.70		
PZ 14-4 (381.70')	19.95	361.75		
PZ 14-5 (392.08')	29.61	362.47		Probe came up with brown water & flakes on it.
PZ 14-6 (390.95')	28.45	362.50		
MW-3B (386.25')	27.72	358.53		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.23	377.41		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.75	368.29		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
04/08/2016 / G.L.P.			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.15	362.95		
PZ 14-2 (381.84')	19.43	362.41		
PZ 14-3 (381.71')	19.45	362.26		
PZ 14-4 (381.70')	19.35	362.35		
PZ 14-5 (392.08')	29.28	362.80		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.07	362.88		
MW-3B (386.25')	26.61	359.64		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.88	376.76		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.51	368.53		Measurement taken from lowest section on top of PVC well casing.
04/15/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.50	362.60		
PZ 14-2 (381.84')	19.89	361.95		
PZ 14-3 (381.71')	19.85	361.86		
PZ 14-4 (381.70')	19.80	361.90		
PZ 14-5 (392.08')	29.51	362.57		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.37	362.58		
MW-3B (386.25')	27.39	358.86		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.05	376.59		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.78	368.26		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
04/22/2016 / G.L.P.			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.85	360.25		
PZ 14-2 (381.84')	20.31	361.53		
PZ 14-3 (381.71')	20.23	361.48		
PZ 14-4 (381.70')	20.16	361.54		
PZ 14-5 (392.08')	29.83	362.25		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.63	362.32		
MW-3B (386.25')	28.00	358.25		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.18	376.46		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.02	368.02		Measurement taken from lowest section on top of PVC well casing.
04/29/2016 / G.L.P.			Weekly Reading/Currently Raining	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.89	362.21		
PZ 14-2 (381.84')	20.33	361.51		
PZ 14-3 (381.71')	20.27	361.44		
PZ 14-4 (381.70')	20.20	361.50		
PZ 14-5 (392.08')	29.89	362.19		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.69	362.26		
MW-3B (386.25')	27.92	358.33		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.70	376.94		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.15	367.89		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
5/6/2016			Weekly Reading/Day After Rain Storm	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.86	363.24		
PZ 14-2 (381.84')	19.07	362.77		
PZ 14-3 (381.71')	18.99	362.72		
PZ 14-4 (381.70')	19.02	362.68		
PZ 14-5 (392.08')	28.83	363.25		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.79	363.16		
MW-3B (386.25')	25.88	360.37		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.66	375.98		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.35	368.69		Measurement taken from lowest section on top of PVC well casing.
5/12/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.27	362.83		
PZ 14-2 (381.84')	19.59	362.25		
PZ 14-3 (381.71')	19.50	362.21		
PZ 14-4 (381.70')	19.49	362.21		
PZ 14-5 (392.08')	29.28	362.80		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.11	362.84		
MW-3B (386.25')	26.82	359.43		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.67	375.97		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.69	368.35		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
5/19/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.65	362.45		
PZ 14-2 (381.84')	20.03	361.81		
PZ 14-3 (381.71')	19.94	361.77		
PZ 14-4 (381.70')	19.91	361.79		
PZ 14-5 (392.08')	29.64	362.44		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.46	362.49		
MW-3B (386.25')	27.55	358.70		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.56	376.08		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.92	368.12		Measurement taken from lowest section on top of PVC well casing.
5/27/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.06	362.04		
PZ 14-2 (381.84')	20.51	361.33		
PZ 14-3 (381.71')	20.39	361.32		
PZ 14-4 (381.70')	20.35	361.35		
PZ 14-5 (392.08')	30.00	362.08		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.84	362.11		
MW-3B (386.25')	28.49	357.76		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.49	377.15		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.31	367.73		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
6/3/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.35	361.75		
PZ 14-2 (381.84')	20.85	360.99		
PZ 14-3 (381.71')	20.74	360.97		
PZ 14-4 (381.70')	20.67	361.03		
PZ 14-5 (392.08')	30.31	361.77		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.09	361.86		
MW-3B (386.25')	28.68	357.57		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.90	376.74		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.58	367.46		Measurement taken from lowest section on top of PVC well casing.
6/10/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.39	361.71		
PZ 14-2 (381.84')	20.82	361.02		
PZ 14-3 (381.71')	20.75	360.96		
PZ 14-4 (381.70')	20.63	361.07		
PZ 14-5 (392.08')	30.33	361.75		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.13	361.82		
MW-3B (386.25')	28.49	357.76		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.25	376.39		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.59	367.45		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
6/17/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.78	361.32		
PZ 14-2 (381.84')	21.26	360.58		
PZ 14-3 (381.71')	21.15	360.56		
PZ 14-4 (381.70')	20.98	360.72		
PZ 14-5 (392.08')	30.65	361.43		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.44	361.51		
MW-3B (386.25')	29.10	357.15		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.28	376.36		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.86	367.18		Measurement taken from lowest section on top of PVC well casing.
6/24/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.92	361.18		
PZ 14-2 (381.84')	21.43	360.41		
PZ 14-3 (381.71')	21.30	360.41		
PZ 14-4 (381.70')	21.12	360.58		
PZ 14-5 (392.08')	29.81	362.27		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.58	361.37		
MW-3B (386.25')	29.33	356.92		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.56	376.08		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.17	366.87		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:

Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.

7/1/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.98	361.12		
PZ 14-2 (381.84')	21.48	360.36		
PZ 14-3 (381.71')	21.37	360.34		
PZ 14-4 (381.70')	21.36	360.34		
PZ 14-5 (392.08')	30.88	361.20		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.62	361.33		
MW-3B (386.25')	29.66	356.59		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.24	377.40		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.34	366.70		Measurement taken from lowest section on top of PVC well casing.
7/8/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.05	361.05		
PZ 14-2 (381.84')	21.57	360.27		
PZ 14-3 (381.71')	21.45	360.26		
PZ 14-4 (381.70')	21.25	360.45		
PZ 14-5 (392.08')	30.93	361.15		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.72	361.23		
MW-3B (386.25')	29.38	356.87		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.61	377.03		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.55	366.49		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
7/15/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.35	360.75		
PZ 14-2 (381.84')	21.63	360.21		
PZ 14-3 (381.71')	21.52	360.19		
PZ 14-4 (381.70')	21.33	360.37		
PZ 14-5 (392.08')	31.02	361.06		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.81	361.14		
MW-3B (386.25')	29.30	356.95		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.02	376.62		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.65	366.39		Measurement taken from lowest section on top of PVC well casing.
7/21/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.22	360.88		
PZ 14-2 (381.84')	21.72	360.12		
PZ 14-3 (381.71')	21.63	360.08		
PZ 14-4 (381.70')	21.41	360.29		
PZ 14-5 (392.08')	31.15	360.93		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.90	361.05		
MW-3B (386.25')	29.46	356.79		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.75	376.89		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.78	366.26		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
7/29/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.27	360.83		
PZ 14-2 (381.84')	21.78	360.06		
PZ 14-3 (381.71')	21.68	360.03		
PZ 14-4 (381.70')	21.46	360.24		
PZ 14-5 (392.08')	31.29	360.79		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.98	360.97		
MW-3B (386.25')	29.23	357.02		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.48	377.16		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.86	366.18		Measurement taken from lowest section on top of PVC well casing.
8/1/2016			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.22	362.88		
PZ 14-2 (381.84')	19.18	362.66		
PZ 14-3 (381.71')	19.08	362.63		
PZ 14-4 (381.70')	19.17	362.53		
PZ 14-5 (392.08')	28.94	363.14		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.28	362.67		
MW-3B (386.25')	24.71	361.54		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.92	376.72		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.32	367.72		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
8/5/2016			Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.94	361.16		
PZ 14-2 (381.84')	21.36	360.48		
PZ 14-3 (381.71')	21.27	360.44		
PZ 14-4 (381.70')	21.11	360.59		
PZ 14-5 (392.08')	30.85	361.23		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.67	361.28		
MW-3B (386.25')	28.89	357.36		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.63	377.01		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.23	366.81		Measurement taken from lowest section on top of PVC well casing.
8/12/2016			Day of Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.06	362.04		
PZ 14-2 (381.84')	20.17	361.67		
PZ 14-3 (381.71')	20.13	361.58		
PZ 14-4 (381.70')	20.06	361.64		
PZ 14-5 (392.08')	29.74	362.34		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.94	362.01		
MW-3B (386.25')	26.56	359.69		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.99	375.65		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.62	367.42		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
8/19/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.21	360.89		
PZ 14-2 (381.84')	21.61	360.23		
PZ 14-3 (381.71')	21.51	360.20		
PZ 14-4 (381.70')	21.34	360.36		
PZ 14-5 (392.08')	31.13	360.95		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.90	361.05		
MW-3B (386.25')	28.88	357.37		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.83	375.81		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.35	366.69		Measurement taken from lowest section on top of PVC well casing.
8/25/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.28	360.82		
PZ 14-2 (381.84')	21.62	360.22		
PZ 14-3 (381.71')	21.59	360.12		
PZ 14-4 (381.70')	21.42	360.28		
PZ 14-5 (392.08')	31.18	360.90		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.96	360.99		
MW-3B (386.25')	28.93	357.32		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.32	377.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.33	366.71		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/2/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.46	360.64		
PZ 14-2 (381.84')	21.90	359.94		
PZ 14-3 (381.71')	21.81	359.90		
PZ 14-4 (381.70')	21.60	360.10		
PZ 14-5 (392.08')	31.42	360.66		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.20	360.75		
MW-3B (386.25')	29.46	356.79		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.34	376.30		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.82	366.22		Measurement taken from lowest section on top of PVC well casing.
9/8/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.51	360.59		
PZ 14-2 (381.84')	21.77	360.07		
PZ 14-3 (381.71')	21.86	359.85		
PZ 14-4 (381.70')	21.64	360.06		
PZ 14-5 (392.08')	31.45	360.63		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.20	360.75		
MW-3B (386.25')	29.60	356.65		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.40	377.24		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.92	366.12		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/16/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.66	360.44		
PZ 14-2 (381.84')	22.07	359.77		
PZ 14-3 (381.71')	21.99	359.72		
PZ 14-4 (381.70')	21.74	359.96		
PZ 14-5 (392.08')	31.56	360.52		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.30	360.65		
MW-3B (386.25')	30.07	356.18		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.20	376.44		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.02	366.02		Measurement taken from lowest section on top of PVC well casing.
9/23/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.63	360.47		
PZ 14-2 (381.84')	22.08	359.76		
PZ 14-3 (381.71')	21.98	359.73		
PZ 14-4 (381.70')	21.75	359.95		
PZ 14-5 (392.08')	31.58	360.50		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.33	360.62		
MW-3B (386.25')	29.55	356.70		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.07	376.57		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.20	365.84		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:

Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.

9/30/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.71	360.39		
PZ 14-2 (381.84')	22.16	359.68		
PZ 14-3 (381.71')	22.10	359.61		
PZ 14-4 (381.70')	21.86	359.84		
PZ 14-5 (392.08')	31.68	360.40		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.44	360.51		
MW-3B (386.25')	29.70	356.55		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.82	376.82		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.35	365.69		Measurement taken from lowest section on top of PVC well casing.
10/7/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.74	360.36		
PZ 14-2 (381.84')	22.13	359.71		
PZ 14-3 (381.71')	22.06	359.65		
PZ 14-4 (381.70')	21.84	359.86		
PZ 14-5 (392.08')	31.69	360.39		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.43	360.52		
MW-3B (386.25')	29.66	356.59		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.70	376.94		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.41	365.63		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/14/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.85	360.25		
PZ 14-2 (381.84')	22.22	359.62		
PZ 14-3 (381.71')	22.16	359.55		
PZ 14-4 (381.70')	21.90	359.80		
PZ 14-5 (392.08')	31.79	360.29		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.52	360.43		
MW-3B (386.25')	29.75	356.50		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.30	376.34		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.60	365.44		Measurement taken from lowest section on top of PVC well casing.
10/21/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.79	360.31		
PZ 14-2 (381.84')	22.17	359.67		
PZ 14-3 (381.71')	22.12	359.59		
PZ 14-4 (381.70')	21.92	359.78		
PZ 14-5 (392.08')	31.76	360.32		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.49	360.46		
MW-3B (386.25')	29.66	356.59		Measurement taken from top of black threaded section.
MH-5 (392.64')	17.57	375.07		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.50	365.54		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/28/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.72	360.38		
PZ 14-2 (381.84')	22.04	359.80		
PZ 14-3 (381.71')	22.05	359.66		
PZ 14-4 (381.70')	21.80	359.90		
PZ 14-5 (392.08')	31.73	360.35		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.49	360.46		
MW-3B (386.25')	29.09	357.16		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.41	376.23		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.56	365.48		Measurement taken from lowest section on top of PVC well casing.
11/4/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.81	360.29		
PZ 14-2 (381.84')	22.13	359.71		
PZ 14-3 (381.71')	22.13	359.58		
PZ 14-4 (381.70')	21.89	359.81		
PZ 14-5 (392.08')	31.80	360.28		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.55	360.40		
MW-3B (386.25')	29.63	356.62		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.24	377.40		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.66	365.38		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/10/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.82	360.28		
PZ 14-2 (381.84')	22.15	359.69		
PZ 14-3 (381.71')	22.13	359.58		
PZ 14-4 (381.70')	21.89	359.81		
PZ 14-5 (392.08')	31.83	360.25		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.54	360.41		
MW-3B (386.25')	29.83	356.42		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.21	377.43		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.78	365.26		Measurement taken from lowest section on top of PVC well casing.
11/18/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.57	360.53		
PZ 14-2 (381.84')	21.84	360.00		
PZ 14-3 (381.71')	21.84	359.87		
PZ 14-4 (381.70')	21.64	360.06		
PZ 14-5 (392.08')	31.57	360.51		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.36	360.59		
MW-3B (386.25')	28.57	357.68		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.48	376.16		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.62	365.42		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/23/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.60	360.50		
PZ 14-2 (381.84')	21.86	359.98		
PZ 14-3 (381.71')	20.90	360.81		
PZ 14-4 (381.70')	21.66	360.04		
PZ 14-5 (392.08')	31.61	360.47		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.39	360.56		
MW-3B (386.25')	28.60	357.65		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.83	376.81		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.63	365.41		Measurement taken from lowest section on top of PVC well casing.
11/30/2016			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.75	361.35		
PZ 14-2 (381.84')	20.75	361.09		
PZ 14-3 (381.71')	20.62	361.09		
PZ 14-4 (381.70')	20.69	361.01		
PZ 14-5 (392.08')	31.10	360.98		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.72	361.23		
MW-3B (386.25')	26.96	359.29		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.39	376.25		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	16.01	366.03		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/1/2016			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.50	362.60		
PZ 14-2 (381.84')	19.22	362.62		
PZ 14-3 (381.71')	19.32	362.39		
PZ 14-4 (381.70')	19.37	362.33		
PZ 14-5 (392.08')	29.82	362.26		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.66	362.29		
MW-3B (386.25')	23.17	363.08		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.36	376.28		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.76	367.28		Measurement taken from lowest section on top of PVC well casing.
12/9/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.78	361.32		
PZ 14-2 (381.84')	20.86	360.98		
PZ 14-3 (381.71')	20.95	360.76		
PZ 14-4 (381.70')	20.72	360.98		
PZ 14-5 (392.08')	30.82	361.26		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.64	361.31		
MW-3B (386.25')	26.95	359.30		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.40	376.24		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.25	366.79		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/16/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.19	360.91		
PZ 14-2 (381.84')	21.42	360.42		
PZ 14-3 (381.71')	21.47	360.24		
PZ 14-4 (381.70')	21.24	360.46		
PZ 14-5 (392.08')	31.30	360.78		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.03	360.92		
MW-3B (386.25')	28.01	358.24		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.08	376.56		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.35	366.69		Measurement taken from lowest section on top of PVC well casing.
12/23/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.20	360.90		
PZ 14-2 (381.84')	21.38	360.46		
PZ 14-3 (381.71')	21.43	360.28		
PZ 14-4 (381.70')	21.22	360.48		
PZ 14-5 (392.08')	31.25	360.83		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	30.03	360.92		
MW-3B (386.25')	27.86	358.39		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.17	376.47		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.20	366.84		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/29/2016			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.76	361.34		
PZ 14-2 (381.84')	20.92	360.92		
PZ 14-3 (381.71')	20.95	360.76		
PZ 14-4 (381.70')	20.75	360.95		
PZ 14-5 (392.08')	30.83	361.25		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.62	362.33		
MW-3B (386.25')	27.20	359.05		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.00	376.64		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.67	367.37		Measurement taken from lowest section on top of PVC well casing.
1/6/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.48	361.62		
PZ 14-2 (381.84')	20.55	361.29		
PZ 14-3 (381.71')	20.61	361.10		
PZ 14-4 (381.70')	20.45	361.25		
PZ 14-5 (392.08')	30.53	361.55		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.37	361.58		
MW-3B (386.25')	26.85	359.40		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.96	376.68		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.29	367.75		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
1/12/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.57	361.53		
PZ 14-2 (381.84')	20.70	361.14		
PZ 14-3 (381.71')	20.75	360.96		
PZ 14-4 (381.70')	20.57	361.13		
PZ 14-5 (392.08')	30.71	361.37		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.44	361.51		
MW-3B (386.25')	26.99	359.26		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.98	376.66		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.33	367.71		Measurement taken from lowest section on top of PVC well casing.
1/20/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.36	361.74		
PZ 14-2 (381.84')	20.48	361.36		
PZ 14-3 (381.71')	20.52	361.19		
PZ 14-4 (381.70')	20.36	361.34		
PZ 14-5 (392.08')	30.45	361.63		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.26	361.69		
MW-3B (386.25')	26.92	359.33		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.48	376.16		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.07	367.97		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
1/27/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.22	362.88		
PZ 14-2 (381.84')	19.09	362.75		
PZ 14-3 (381.71')	19.21	362.50		
PZ 14-4 (381.70')	19.11	362.59		
PZ 14-5 (392.08')	29.44	362.64		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.31	362.64		
MW-3B (386.25')	23.85	362.40		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.26	377.38		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.02	369.02		Measurement taken from lowest section on top of PVC well casing.
2/3/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.19	361.91		
PZ 14-2 (381.84')	20.34	361.50		
PZ 14-3 (381.71')	20.37	361.34		
PZ 14-4 (381.70')	20.22	361.48		
PZ 14-5 (392.08')	30.26	361.82		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.06	361.89		
MW-3B (386.25')	26.70	359.55		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.49	377.15		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.63	368.41		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
2/10/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.31	361.79		
PZ 14-2 (381.84')	20.46	361.38		
PZ 14-3 (381.71')	20.55	361.16		
PZ 14-4 (381.70')	20.32	361.38		
PZ 14-5 (392.08')	30.50	361.58		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.20	361.75		
MW-3B (386.25')	27.05	359.20		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.79	375.85		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.76	367.28		Measurement taken from lowest section on top of PVC well casing.
2/17/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.14	361.96		
PZ 14-2 (381.84')	20.30	361.54		
PZ 14-3 (381.71')	20.34	361.37		
PZ 14-4 (381.70')	20.17	361.53		
PZ 14-5 (392.08')	30.21	361.87		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.03	361.92		
MW-3B (386.25')	26.69	359.56		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.39	376.25		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.71	368.33		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:	<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>			
2/24/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.33	362.77		
PZ 14-2 (381.84')	19.56	362.28		
PZ 14-3 (381.71')	19.26	362.45		
PZ 14-4 (381.70')	19.30	362.40		
PZ 14-5 (392.08')	29.47	362.61		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.30	362.65		
MW-3B (386.25')	25.11	361.14		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.62	376.02		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.82	369.22		Measurement taken from lowest section on top of PVC well casing.
3/3/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.26	362.84		
PZ 14-2 (381.84')	19.28	362.56		
PZ 14-3 (381.71')	19.13	362.58		
PZ 14-4 (381.70')	19.22	362.48		
PZ 14-5 (392.08')	29.37	362.71		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.26	362.69		
MW-3B (386.25')	24.97	361.28		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.45	377.19		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.68	369.36		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
3/10/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.70	362.40		
PZ 14-2 (381.84')	19.93	361.91		
PZ 14-3 (381.71')	19.85	361.86		
PZ 14-4 (381.70')	19.80	361.90		
PZ 14-5 (392.08')	29.78	362.30		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.59	362.36		
MW-3B (386.25')	26.55	359.70		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.53	377.11		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.15	368.89		Measurement taken from lowest section on top of PVC well casing.
3/17/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.68	362.42		
PZ 14-2 (381.84')	19.91	361.93		
PZ 14-3 (381.71')	19.85	361.86		
PZ 14-4 (381.70')	19.81	361.89		
PZ 14-5 (392.08')	29.77	362.31		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.58	362.37		
MW-3B (386.25')	26.46	359.79		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.78	375.86		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.37	368.67		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
3/24/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.81	363.29		
PZ 14-2 (381.84')	18.89	362.95		
PZ 14-3 (381.71')	18.91	362.80		
PZ 14-4 (381.70')	18.82	362.88		
PZ 14-5 (392.08')	28.92	363.16		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.78	363.17		
MW-3B (386.25')	24.91	361.34		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.77	375.87		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.64	369.40		Measurement taken from lowest section on top of PVC well casing.
3/30/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.22	364.88		
PZ 14-2 (381.84')	17.02	364.82		
PZ 14-3 (381.71')	17.12	364.59		
PZ 14-4 (381.70')	17.13	364.57		
PZ 14-5 (392.08')	27.49	364.59		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.44	364.51		
MW-3B (386.25')	20.92	365.33		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.35	377.29		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.88	371.16		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
4/7/2017			Weekly Reading / Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.35	365.75		
PZ 14-2 (381.84')	16.11	365.73		
PZ 14-3 (381.71')	16.24	365.47		
PZ 14-4 (381.70')	16.25	365.45		
PZ 14-5 (392.08')	26.61	365.47		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.60	365.35		
MW-3B (386.25')	19.47	366.78		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.79	376.85		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	9.56	372.48		Measurement taken from lowest section on top of PVC well casing.
4/14/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.95	364.15		
PZ 14-2 (381.84')	18.15	363.69		
PZ 14-3 (381.71')	18.12	363.59		
PZ 14-4 (381.70')	18.17	363.53		
PZ 14-5 (392.08')	28.02	364.06		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.94	364.01		
MW-3B (386.25')	24.91	361.34		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.88	376.76		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.46	370.58		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
4/20/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.38	363.72		
PZ 14-2 (381.84')	18.72	363.12		
PZ 14-3 (381.71')	18.67	363.04		
PZ 14-4 (381.70')	18.68	363.02		
PZ 14-5 (392.08')	28.41	363.67		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.30	363.65		
MW-3B (386.25')	26.05	360.20		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.54	377.10		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.97	370.07		Measurement taken from lowest section on top of PVC well casing.
4/28/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.97	364.13		
PZ 14-2 (381.84')	18.30	363.54		
PZ 14-3 (381.71')	18.23	363.48		
PZ 14-4 (381.70')	18.28	363.42		
PZ 14-5 (392.08')	28.02	364.06		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.93	364.02		
MW-3B (386.25')	25.46	360.79		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.92	376.72		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.07	369.97		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
5/4/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.54	363.56		
PZ 14-2 (381.84')	18.99	362.85		
PZ 14-3 (381.71')	18.88	362.83		
PZ 14-4 (381.70')	18.92	362.78		
PZ 14-5 (392.08')	28.53	363.55		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.39	363.56		
MW-3B (386.25')	26.64	359.61		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.77	376.87		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.55	369.49		Measurement taken from lowest section on top of PVC well casing.
5/12/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.67	363.43		
PZ 14-2 (381.84')	19.17	362.67		
PZ 14-3 (381.71')	19.07	362.64		
PZ 14-4 (381.70')	19.07	362.63		
PZ 14-5 (392.08')	28.63	363.45		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.47	363.48		
MW-3B (386.25')	27.36	358.89		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.50	377.14		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.76	369.28		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
5/22/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.81	363.29		
PZ 14-2 (381.84')	19.37	362.47		
PZ 14-3 (381.71')	19.25	362.46		
PZ 14-4 (381.70')	19.23	362.47		
PZ 14-5 (392.08')	28.76	363.32		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.58	363.37		
MW-3B (386.25')	27.75	358.50		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.43	377.21		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.95	369.09		Measurement taken from lowest section on top of PVC well casing.
5/26/2017			Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.21	364.89		
PZ 14-2 (381.84')	17.61	364.23		
PZ 14-3 (381.71')	N/A	#VALUE!		
PZ 14-4 (381.70')	17.43	364.27		
PZ 14-5 (392.08')	27.68	364.40		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.26	364.69		
MW-3B (386.25')	23.90	362.35		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.50	377.14		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.95	370.09		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:

Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.

PZ-14-3 PVC Piezometer Repaired. New "Top of PVC Elevation going Forward".

6/2/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.22	363.88		
PZ 14-2 (381.84')	18.69	363.15		
PZ 14-3 (383.44')	19.06	364.38		First week of recording from this well with the new "Top of PVC Elevation"
PZ 14-4 (381.70')	18.61	363.09		
PZ 14-5 (392.08')	28.20	363.88		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.08	363.87		
MW-3B (386.25')	26.32	359.93		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.92	376.72		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.42	369.62		Measurement taken from lowest section on top of PVC well casing.
6/9/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.56	363.54		
PZ 14-2 (381.84')	19.11	362.73		
PZ 14-3 (383.44')	19.57	363.87		
PZ 14-4 (381.70')	18.98	362.72		
PZ 14-5 (392.08')	28.46	363.62		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.38	363.57		
MW-3B (386.25')	26.96	359.29		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.42	376.22		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.91	369.13		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
6/16/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.20	362.90		
PZ 14-2 (381.84')	19.85	361.99		
PZ 14-3 (383.44')	20.34	363.10		
PZ 14-4 (381.70')	19.60	362.10		
PZ 14-5 (392.08')	29.11	362.97		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.91	363.04		
MW-3B (386.25')	28.24	358.01		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.32	377.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.47	368.57		Measurement taken from lowest section on top of PVC well casing.
6/20/2016			Day After Storm Event	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.02	365.08		
PZ 14-2 (381.84')	17.13	364.71		
PZ 14-3 (383.44')	17.80	365.64		
PZ 14-4 (381.70')	17.12	364.58		
PZ 14-5 (392.08')	27.28	364.80		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.10	364.85		
MW-3B (386.25')	23.23	363.02		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.83	375.81		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.95	370.09		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
6/22/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.59	363.51		
PZ 14-2 (381.84')	19.13	362.71		
PZ 14-3 (383.44')	19.63	363.81		
PZ 14-4 (381.70')	18.85	362.85		
PZ 14-5 (392.08')	28.43	363.65		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.38	363.57		
MW-3B (386.25')	27.77	358.48		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.17	376.47		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.05	368.99		Measurement taken from lowest section on top of PVC well casing.
6/30/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.68	362.42		
PZ 14-2 (381.84')	20.37	361.47		
PZ 14-3 (383.44')	21.63	361.81		
PZ 14-4 (381.70')	19.89	361.81		
PZ 14-5 (392.08')	29.38	362.70		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.16	362.79		
MW-3B (386.25')	28.41	357.84		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.00	376.64		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.80	368.24		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
7/7/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.62	362.48		
PZ 14-2 (381.84')	20.31	361.53		
PZ 14-3 (383.44')	20.78	362.66		
PZ 14-4 (381.70')	20.02	361.68		
PZ 14-5 (392.08')	29.49	362.59		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.29	362.66		
MW-3B (386.25')	28.86	357.39		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.62	377.02		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.08	367.96		Measurement taken from lowest section on top of PVC well casing.
7/14/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.35	362.75		
PZ 14-2 (381.84')	19.91	361.93		
PZ 14-3 (383.44')	20.44	363.00		
PZ 14-4 (381.70')	19.69	362.01		
PZ 14-5 (392.08')	29.14	362.94		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.10	362.85		
MW-3B (386.25')	27.61	358.64		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.48	377.16		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.97	368.07		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
7/21/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.61	362.49		
PZ 14-2 (381.84')	20.25	361.59		
PZ 14-3 (383.44')	20.72	362.72		
PZ 14-4 (381.70')	19.95	361.75		
PZ 14-5 (392.08')	29.51	362.57		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.31	362.64		
MW-3B (386.25')	28.00	358.25		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.35	377.29		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.23	367.81		Measurement taken from lowest section on top of PVC well casing.
7/28/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.69	362.41		
PZ 14-2 (381.84')	20.30	361.54		
PZ 14-3 (383.44')	N/A	#VALUE!		
PZ 14-4 (381.70')	20.01	361.69		
PZ 14-5 (392.08')	29.59	362.49		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.38	362.57		
MW-3B (386.25')	28.06	358.19		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.24	376.40		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.36	367.68		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:

Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.

PZ-14-3 PVC Piezometer Repaired. New "Top of PVC Elevation going Forward".

8/4/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.33	362.77		
PZ 14-2 (381.84')	19.81	362.03		
PZ 14-3 (383.23')	21.23	362.00		
PZ 14-4 (381.70')	19.62	362.08		
PZ 14-5 (392.08')	29.24	362.84		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.09	362.86		
MW-3B (386.25')	27.14	359.11		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.05	376.59		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.11	367.93		Measurement taken from lowest section on top of PVC well casing.
8/11/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.07	362.03		
PZ 14-2 (381.84')	20.67	361.17		
PZ 14-3 (383.23')	20.98	362.25		
PZ 14-4 (381.70')	20.39	361.31		
PZ 14-5 (392.08')	29.97	362.11		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.74	362.21		
MW-3B (386.25')	28.59	357.66		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.78	375.86		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.74	367.30		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
8/17/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.81	362.29		
PZ 14-2 (381.84')	20.32	361.52		
PZ 14-3 (383.23')	21.66	361.57		
PZ 14-4 (381.70')	20.09	361.61		
PZ 14-5 (392.08')	29.71	362.37		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.52	362.43		
MW-3B (386.25')	27.87	358.38		Measurement taken from top of black threaded section.
MH-5 (392.64')	10.57	382.07		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.49	367.55		Measurement taken from lowest section on top of PVC well casing.
8/25/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.20	361.90		
PZ 14-2 (381.84')	20.79	361.05		
PZ 14-3 (383.23')	22.04	361.19		
PZ 14-4 (381.70')	20.50	361.20		
PZ 14-5 (392.08')	30.08	362.00		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.88	362.07		
MW-3B (386.25')	28.58	357.67		Measurement taken from top of black threaded section.
MH-5 (392.64')	9.45	383.19		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.80	367.24		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/1/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.46	361.64		
PZ 14-2 (381.84')	21.08	360.76		
PZ 14-3 (383.23')	21.38	361.85		
PZ 14-4 (381.70')	20.76	360.94		
PZ 14-5 (392.08')	30.35	361.73		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.10	361.85		
MW-3B (386.25')	29.05	357.20		Measurement taken from top of black threaded section.
MH-5 (392.64')	9.08	383.56		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.07	366.97		Measurement taken from lowest section on top of PVC well casing.
9/8/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.99	362.11		
PZ 14-2 (381.84')	20.45	361.39		
PZ 14-3 (383.23')	21.78	361.45		
PZ 14-4 (381.70')	20.24	361.46		
PZ 14-5 (392.08')	29.94	362.14		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.75	362.20		
MW-3B (386.25')	27.64	358.61		Measurement taken from top of black threaded section.
MH-5 (392.64')	8.74	383.90		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.75	367.29		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/15/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.55	361.55		
PZ 14-2 (381.84')	21.13	360.71		
PZ 14-3 (383.23')	22.22	361.01		
PZ 14-4 (381.70')	20.84	360.86		
PZ 14-5 (392.08')	30.44	361.64		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.21	361.74		
MW-3B (386.25')	28.89	357.36		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.78	375.86		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.19	366.85		Measurement taken from lowest section on top of PVC well casing.
9/22/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.64	361.46		
PZ 14-2 (381.84')	21.19	360.65		
PZ 14-3 (383.23')	22.50	360.73		
PZ 14-4 (381.70')	20.88	360.82		
PZ 14-5 (392.08')	30.50	361.58		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.29	361.66		
MW-3B (386.25')	28.92	357.33		Measurement taken from top of black threaded section.
MH-5 (392.64')	10.51	382.13		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.12	366.92		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/29/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.79	361.31		
PZ 14-2 (381.84')	21.34	360.50		
PZ 14-3 (383.23')	22.66	360.57		
PZ 14-4 (381.70')	21.00	360.70		
PZ 14-5 (392.08')	30.68	361.40		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.42	361.53		
MW-3B (386.25')	29.12	357.13		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.94	376.70		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.43	366.61		Measurement taken from lowest section on top of PVC well casing.
10/6/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.90	361.20		
PZ 14-2 (381.84')	21.47	360.37		
PZ 14-3 (383.23')	22.79	360.44		
PZ 14-4 (381.70')	21.12	360.58		
PZ 14-5 (392.08')	30.82	361.26		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.56	361.39		
MW-3B (386.25')	29.28	356.97		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.00	376.64		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.52	366.52		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/12/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.86	361.24		
PZ 14-2 (381.84')	21.39	360.45		
PZ 14-3 (383.23')	22.74	360.49		
PZ 14-4 (381.70')	21.09	360.61		
PZ 14-5 (392.08')	30.79	361.29		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.56	361.39		
MW-3B (386.25')	28.87	357.38		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.71	376.93		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.61	366.43		Measurement taken from lowest section on top of PVC well casing.
10/20/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.00	361.10		
PZ 14-2 (381.84')	21.51	360.33		
PZ 14-3 (383.23')	22.86	360.37		
PZ 14-4 (381.70')	21.20	360.50		
PZ 14-5 (392.08')	30.92	361.16		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.67	361.28		
MW-3B (386.25')	29.12	357.13		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.25	377.39		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.68	366.36		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/27/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.88	361.22		
PZ 14-2 (381.84')	21.33	360.51		
PZ 14-3 (383.23')	22.68	360.55		
PZ 14-4 (381.70')	21.06	360.64		
PZ 14-5 (392.08')	30.83	361.25		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.61	361.34		
MW-3B (386.25')	28.51	357.74		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.13	376.51		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.70	366.34		Measurement taken from lowest section on top of PVC well casing.
11/3/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.74	362.36		
PZ 14-2 (381.84')	19.98	361.86		
PZ 14-3 (383.23')	21.36	361.87		
PZ 14-4 (381.70')	19.82	361.88		
PZ 14-5 (392.08')	29.67	362.41		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.57	362.38		
MW-3B (386.25')	26.51	359.74		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.28	377.36		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.67	367.37		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/9/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.45	361.65		
PZ 14-2 (381.84')	20.82	361.02		
PZ 14-3 (383.23')	22.19	361.04		
PZ 14-4 (381.70')	20.58	361.12		
PZ 14-5 (392.08')	30.43	361.65		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.20	361.75		
MW-3B (386.25')	27.87	358.38		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.59	377.05		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.97	367.07		Measurement taken from lowest section on top of PVC well casing.
11/17/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.74	361.36		
PZ 14-2 (381.84')	21.12	360.72		
PZ 14-3 (383.23')	22.50	360.73		
PZ 14-4 (381.70')	20.90	360.80		
PZ 14-5 (392.08')	30.71	361.37		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.49	361.46		
MW-3B (386.25')	28.25	358.00		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.71	375.93		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.18	366.86		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/22/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.73	361.37		
PZ 14-2 (381.84')	21.10	360.74		
PZ 14-3 (383.23')	22.44	360.79		
PZ 14-4 (381.70')	20.88	360.82		
PZ 14-5 (392.08')	30.68	361.40		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.50	361.45		
MW-3B (386.25')	28.18	358.07		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.64	377.00		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.19	366.85		Measurement taken from lowest section on top of PVC well casing.
11/22/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.73	361.37		
PZ 14-2 (381.84')	21.10	360.74		
PZ 14-3 (383.23')	22.44	360.79		
PZ 14-4 (381.70')	20.88	360.82		
PZ 14-5 (392.08')	30.68	361.40		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.50	361.45		
MW-3B (386.25')	28.18	358.07		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.64	377.00		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.19	366.85		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/1/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.92	361.18		
PZ 14-2 (381.84')	21.32	360.52		
PZ 14-3 (383.23')	22.66	360.57		
PZ 14-4 (381.70')	21.08	360.62		
PZ 14-5 (392.08')	30.90	361.18		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.61	361.34		
MW-3B (386.25')	28.59	357.66		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.28	377.36		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.33	366.71		Measurement taken from lowest section on top of PVC well casing.
12/8/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.91	361.19		
PZ 14-2 (381.84')	21.30	360.54		
PZ 14-3 (383.23')	22.61	360.62		
PZ 14-4 (381.70')	21.05	360.65		
PZ 14-5 (392.08')	30.86	361.22		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.66	361.29		
MW-3B (386.25')	28.46	357.79		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.72	375.92		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.35	366.69		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/14/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.02	361.08		
PZ 14-2 (381.84')	21.38	360.46		
PZ 14-3 (383.23')	22.62	360.61		
PZ 14-4 (381.70')	21.15	360.55		
PZ 14-5 (392.08')	30.99	361.09		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.78	361.17		
MW-3B (386.25')	28.54	357.71		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.16	376.48		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.50	366.54		Measurement taken from lowest section on top of PVC well casing.
12/22/2017			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.95	361.15		
PZ 14-2 (381.84')	21.32	360.52		
PZ 14-3 (383.23')	22.61	360.62		
PZ 14-4 (381.70')	21.08	360.62		
PZ 14-5 (392.08')	30.92	361.16		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.70	361.25		
MW-3B (386.25')	28.46	357.79		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.23	376.41		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.42	366.62		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
1/5/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	29.13	360.97		
PZ 14-2 (381.84')	21.50	360.34		
PZ 14-3 (383.23')	22.82	360.41		
PZ 14-4 (381.70')	21.25	360.45		
PZ 14-5 (392.08')	31.13	360.95		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.88	361.07		
MW-3B (386.25')	28.83	357.42		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.87	376.77		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.56	366.48		Measurement taken from lowest section on top of PVC well casing.
1/12/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.72	361.38		
PZ 14-2 (381.84')	20.96	360.88		
PZ 14-3 (383.23')	20.02	363.21		
PZ 14-4 (381.70')	20.74	360.96		
PZ 14-5 (392.08')	30.84	361.24		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	29.49	361.46		
MW-3B (386.25')	28.16	358.09		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.64	377.00		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	15.22	366.82		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
1/18/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.55	362.55		
PZ 14-2 (381.84')	19.62	362.22		
PZ 14-3 (383.23')	20.20	363.03		
PZ 14-4 (381.70')	19.51	362.19		
PZ 14-5 (392.08')	29.53	362.55		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.45	362.50		
MW-3B (386.25')	25.72	360.53		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.33	376.31		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.22	367.82		Measurement taken from lowest section on top of PVC well casing.
1/26/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.41	362.69		
PZ 14-2 (381.84')	19.47	362.37		
PZ 14-3 (383.23')	20.59	362.64		
PZ 14-4 (381.70')	19.35	362.35		
PZ 14-5 (392.08')	29.40	362.68		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.30	362.65		
MW-3B (386.25')	25.51	360.74		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.28	377.36		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.90	368.14		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
2/2/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.07	362.03		
PZ 14-2 (381.84')	20.25	361.59		
PZ 14-3 (383.23')	21.26	361.97		
PZ 14-4 (381.70')	20.09	361.61		
PZ 14-5 (392.08')	30.09	361.99		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.88	362.07		
MW-3B (386.25')	26.98	359.27		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.32	377.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.52	368.52		Measurement taken from lowest section on top of PVC well casing.
2/9/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.92	362.18		
PZ 14-2 (381.84')	20.10	361.74		
PZ 14-3 (383.23')	21.04	362.19		
PZ 14-4 (381.70')	19.94	361.76		
PZ 14-5 (392.08')	29.86	362.22		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.74	362.21		
MW-3B (386.25')	26.66	359.59		Measurement taken from top of black threaded section.
MH-5 (392.64')	10.45	382.19		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.05	367.99		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:	<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>			
2/16/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.33	363.77		
PZ 14-2 (381.84')	18.17	363.67		
PZ 14-3 (383.23')	19.42	363.81		
PZ 14-4 (381.70')	18.20	363.50		
PZ 14-5 (392.08')	28.45	363.63		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.40	363.55		
MW-3B (386.25')	23.01	363.24		Measurement taken from top of black threaded section.
MH-5 (392.64')	9.32	383.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.34	369.70		Measurement taken from lowest section on top of PVC well casing.
2/23/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.34	363.76		
PZ 14-2 (381.84')	18.26	363.58		
PZ 14-3 (383.23')	19.05	364.18		
PZ 14-4 (381.70')	18.22	363.48		
PZ 14-5 (392.08')	28.48	363.60		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.32	363.63		
MW-3B (386.25')	23.73	362.52		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.36	377.28		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.21	369.83		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
3/2/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.08	365.02		
PZ 14-2 (381.84')	16.81	365.03		
PZ 14-3 (383.23')	18.13	365.10		
PZ 14-4 (381.70')	16.77	364.93		
PZ 14-5 (392.08')	27.56	364.52		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.28	364.67		
MW-3B (386.25')	20.92	365.33		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.38	377.26		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.48	371.56		Measurement taken from lowest section on top of PVC well casing.
3/9/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.52	364.58		
PZ 14-2 (381.84')	17.46	364.38		
PZ 14-3 (383.23')	17.95	365.28		
PZ 14-4 (381.70')	17.46	364.24		
PZ 14-5 (392.08')	27.60	364.48		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.55	364.40		
MW-3B (386.25')	23.03	363.22		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.28	377.36		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.88	371.16		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
3/16/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.89	364.21		
PZ 14-2 (381.84')	17.98	363.86		
PZ 14-3 (383.23')	18.67	364.56		
PZ 14-4 (381.70')	17.95	363.75		
PZ 14-5 (392.08')	27.92	364.16		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.88	364.07		
MW-3B (386.25')	24.33	361.92		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.59	376.05		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.48	370.56		Measurement taken from lowest section on top of PVC well casing.
3/23/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.19	363.91		
PZ 14-2 (381.84')	18.45	363.39		
PZ 14-3 (383.23')	19.38	363.85		
PZ 14-4 (381.70')	18.39	363.31		
PZ 14-5 (392.08')	28.24	363.84		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.10	363.85		
MW-3B (386.25')	25.50	360.75		Measurement taken from top of black threaded section.
MH-5 (392.64')	9.95	382.69		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.08	369.96		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
3/30/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.14	363.96		
PZ 14-2 (381.84')	18.46	363.38		
PZ 14-3 (383.23')	18.46	364.77		
PZ 14-4 (381.70')	18.40	363.30		
PZ 14-5 (392.08')	28.17	363.91		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.07	363.88		
MW-3B (386.25')	25.69	360.56		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.39	377.25		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.35	369.69		Measurement taken from lowest section on top of PVC well casing.
4/6/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.04	365.06		
PZ 14-2 (381.84')	17.20	364.64		
PZ 14-3 (383.23')	18.24	364.99		
PZ 14-4 (381.70')	17.18	364.52		
PZ 14-5 (392.08')	27.12	364.96		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.05	364.90		
MW-3B (386.25')	23.83	362.42		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.94	375.70		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.65	370.39		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
4/13/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.01	364.09		
PZ 14-2 (381.84')	18.41	363.43		
PZ 14-3 (383.23')	19.36	363.87		
PZ 14-4 (381.70')	18.30	363.40		
PZ 14-5 (392.08')	28.00	364.08		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.88	364.07		
MW-3B (386.25')	25.96	360.29		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.86	375.78		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.52	369.52		Measurement taken from lowest section on top of PVC well casing.
4/20/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.54	365.56		
PZ 14-2 (381.84')	16.64	365.20		
PZ 14-3 (383.23')	17.46	365.77		
PZ 14-4 (381.70')	16.65	365.05		
PZ 14-5 (392.08')	26.55	365.53		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.57	365.38		
MW-3B (386.25')	22.97	363.28		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.60	376.04		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.23	370.81		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
4/27/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.49	364.61		
PZ 14-2 (381.84')	17.85	363.99		
PZ 14-3 (383.23')	18.92	364.31		
PZ 14-4 (381.70')	17.77	363.93		
PZ 14-5 (392.08')	27.46	364.62		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.37	364.58		
MW-3B (386.25')	25.32	360.93		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.14	376.50		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.07	369.97		Measurement taken from lowest section on top of PVC well casing.
5/4/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.79	364.31		
PZ 14-2 (381.84')	18.26	363.58		
PZ 14-3 (383.23')	19.41	363.82		
PZ 14-4 (381.70')	18.11	363.59		
PZ 14-5 (392.08')	27.80	364.28		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.61	364.34		
MW-3B (386.25')	26.03	360.22		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.30	376.34		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.28	369.76		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
5/11/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.28	363.82		
PZ 14-2 (381.84')	18.83	363.01		
PZ 14-3 (383.23')	19.98	363.25		
PZ 14-4 (381.70')	18.65	363.05		
PZ 14-5 (392.08')	28.26	363.82		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.06	363.89		
MW-3B (386.25')	26.73	359.52		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.48	376.16		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.87	369.17		Measurement taken from lowest section on top of PVC well casing.
5/18/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.35	365.75		
PZ 14-2 (381.84')	16.46	365.38		
PZ 14-3 (383.23')	17.40	365.83		
PZ 14-4 (381.70')	16.46	365.24		
PZ 14-5 (392.08')	26.40	365.68		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.39	365.56		
MW-3B (386.25')	22.58	363.67		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.94	376.70		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.28	370.76		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
5/25/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.99	365.11		
PZ 14-2 (381.84')	17.32	364.52		
PZ 14-3 (383.23')	18.44	364.79		
PZ 14-4 (381.70')	17.24	364.46		
PZ 14-5 (392.08')	26.93	365.15		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.86	365.09		
MW-3B (386.25')	24.53	361.72		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.29	377.35		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.88	370.16		Measurement taken from lowest section on top of PVC well casing.
5/31/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.23	363.87		
PZ 14-2 (381.84')	18.78	363.06		
PZ 14-3 (383.23')	19.92	363.31		
PZ 14-4 (381.70')	18.54	363.16		
PZ 14-5 (392.08')	28.10	363.98		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.98	363.97		
MW-3B (386.25')	26.79	359.46		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.46	377.18		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.80	369.24		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
6/8/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.53	363.57		
PZ 14-2 (381.84')	19.13	362.71		
PZ 14-3 (383.23')	20.28	362.95		
PZ 14-4 (381.70')	18.97	362.73		
PZ 14-5 (392.08')	28.42	363.66		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.27	363.68		
MW-3B (386.25')	27.31	358.94		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.32	376.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.13	368.91		Measurement taken from lowest section on top of PVC well casing.
6/14/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.00	363.10		
PZ 14-2 (381.84')	19.67	362.17		
PZ 14-3 (383.23')	20.81	362.42		
PZ 14-4 (381.70')	19.36	362.34		
PZ 14-5 (392.08')	28.84	363.24		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.66	363.29		
MW-3B (386.25')	27.93	358.32		Measurement taken from top of black threaded section.
MH-5 (392.64')	18.07	374.57		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.57	368.47		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
6/22/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.42	362.68		
PZ 14-2 (381.84')	20.14	361.70		
PZ 14-3 (383.23')	21.35	361.88		
PZ 14-4 (381.70')	19.80	361.90		
PZ 14-5 (392.08')	29.28	362.80		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.04	362.91		
MW-3B (386.25')	28.44	357.81		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.07	376.57		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.03	368.01		Measurement taken from lowest section on top of PVC well casing.
6/29/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.36	362.74		
PZ 14-2 (381.84')	20.01	361.83		
PZ 14-3 (383.23')	21.31	361.92		
PZ 14-4 (381.70')	19.71	361.99		
PZ 14-5 (392.08')	29.24	362.84		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.04	362.91		
MW-3B (386.25')	27.92	358.33		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.18	376.46		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.06	367.98		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
7/6/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.70	362.40		
PZ 14-2 (381.84')	20.40	361.44		
PZ 14-3 (383.23')	21.61	361.62		
PZ 14-4 (381.70')	20.05	361.65		
PZ 14-5 (392.08')	29.51	362.57		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.33	362.62		
MW-3B (386.25')	28.47	357.78		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.99	376.65		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.43	367.61		Measurement taken from lowest section on top of PVC well casing.
7/13/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.04	362.06		
PZ 14-2 (381.84')	20.76	361.08		
PZ 14-3 (383.23')	22.05	361.18		
PZ 14-4 (381.70')	20.33	361.37		
PZ 14-5 (392.08')	29.88	362.20		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.62	362.33		
MW-3B (386.25')	29.16	357.09		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.32	376.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.70	367.34		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
	<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>			
7/20/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	28.07	362.03		
PZ 14-2 (381.84')	20.78	361.06		
PZ 14-3 (383.23')	22.09	361.14		
PZ 14-4 (381.70')	20.40	361.30		
PZ 14-5 (392.08')	29.95	362.13		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.72	362.23		
MW-3B (386.25')	28.81	357.44		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.51	376.13		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.83	367.21		Measurement taken from lowest section on top of PVC well casing.
7/27/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.12	363.98		
PZ 14-2 (381.84')	18.35	363.49		
PZ 14-3 (383.23')	19.82	363.41		
PZ 14-4 (381.70')	18.22	363.48		
PZ 14-5 (392.08')	28.05	364.03		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.04	363.91		
MW-3B (386.25')	24.48	361.77		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.77	375.87		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.33	368.71		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
8/2/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.61	362.49		
PZ 14-2 (381.84')	20.15	361.69		
PZ 14-3 (383.23')	21.44	361.79		
PZ 14-4 (381.70')	19.84	361.86		
PZ 14-5 (392.08')	29.48	362.60		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	28.30	362.65		
MW-3B (386.25')	28.55	357.70		Measurement taken from top of black threaded section.
MH-5 (392.64')	17.32	375.32		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	14.21	367.83		Measurement taken from lowest section on top of PVC well casing.
8/9/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.49	364.61		
PZ 14-2 (381.84')	17.62	364.22		
PZ 14-3 (383.23')	19.00	364.23		
PZ 14-4 (381.70')	17.52	364.18		
PZ 14-5 (392.08')	27.47	364.61		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.45	364.50		
MW-3B (386.25')	23.39	362.86		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.72	376.92		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.74	369.30		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
8/17/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.75	364.35		
PZ 14-2 (381.84')	17.98	363.86		
PZ 14-3 (383.23')	19.30	363.93		
PZ 14-4 (381.70')	17.82	363.88		
PZ 14-5 (392.08')	27.72	364.36		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.64	364.31		
MW-3B (386.25')	24.12	362.13		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.96	376.68		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.92	369.12		Measurement taken from lowest section on top of PVC well casing.
8/24/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.53	364.57		
PZ 14-2 (381.84')	17.79	364.05		
PZ 14-3 (383.23')	19.13	364.10		
PZ 14-4 (381.70')	17.65	364.05		
PZ 14-5 (392.08')	27.81	364.27		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.52	364.43		
MW-3B (386.25')	23.77	362.48		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.39	376.25		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.43	369.61		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
8/31/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.27	362.83		
PZ 14-2 (381.84')	19.80	362.04		
PZ 14-3 (383.23')	21.01	362.22		
PZ 14-4 (381.70')	19.49	362.21		
PZ 14-5 (392.08')	29.14	362.94		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.97	362.98		
MW-3B (386.25')	27.23	359.02		Measurement taken from top of black threaded section.
MH-5 (392.64')	12.96	379.68		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.67	368.37		Measurement taken from lowest section on top of PVC well casing.
9/7/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	27.17	362.93		
PZ 14-2 (381.84')	19.62	362.22		
PZ 14-3 (383.23')	20.73	362.50		
PZ 14-4 (381.70')	19.38	362.32		
PZ 14-5 (392.08')	29.12	362.96		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.91	363.04		
MW-3B (386.25')	26.91	359.34		Measurement taken from top of black threaded section.
MH-5 (392.64')	9.11	383.53		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	13.48	368.56		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/14/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.58	363.52		
PZ 14-2 (381.84')	18.95	362.89		
PZ 14-3 (383.23')	20.10	363.13		
PZ 14-4 (381.70')	18.76	362.94		
PZ 14-5 (392.08')	28.47	363.61		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.38	363.57		
MW-3B (386.25')	25.93	360.32		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.69	376.95		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.42	369.62		Measurement taken from lowest section on top of PVC well casing.
9/21/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.73	363.37		
PZ 14-2 (381.84')	19.19	362.65		
PZ 14-3 (383.23')	20.40	362.83		
PZ 14-4 (381.70')	18.98	362.72		
PZ 14-5 (392.08')	28.64	363.44		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.51	363.44		
MW-3B (386.25')	26.50	359.75		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.62	377.02		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.93	369.11		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
9/28/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.00	366.10		
PZ 14-2 (381.84')	15.86	365.98		
PZ 14-3 (383.23')	17.40	365.83		
PZ 14-4 (381.70')	15.92	365.78		
PZ 14-5 (392.08')	26.27	365.81		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.15	365.80		
MW-3B (386.25')	20.55	365.70		Measurement taken from top of black threaded section.
MH-5 (392.64')	8.70	383.94		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.70	371.34		Measurement taken from lowest section on top of PVC well casing.
10/4/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.19	365.91		
PZ 14-2 (381.84')	16.21	365.63		
PZ 14-3 (383.23')	17.24	365.99		
PZ 14-4 (381.70')	16.20	365.50		
PZ 14-5 (392.08')	26.30	365.78		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.25	365.70		
MW-3B (386.25')	21.66	364.59		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.92	384.72		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.66	371.38		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/11/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.58	364.52		
PZ 14-2 (381.84')	18.00	363.84		
PZ 14-3 (383.23')	19.21	364.02		
PZ 14-4 (381.70')	17.85	363.85		
PZ 14-5 (392.08')	27.49	364.59		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.42	364.53		
MW-3B (386.25')	25.19	361.06		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.37	385.27		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.56	370.48		Measurement taken from lowest section on top of PVC well casing.
10/19/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.36	364.74		
PZ 14-2 (381.84')	17.84	364.00		
PZ 14-3 (383.23')	19.08	364.15		
PZ 14-4 (381.70')	17.70	364.00		
PZ 14-5 (392.08')	24.30	367.78		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.22	364.73		
MW-3B (386.25')	25.24	361.01		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.11	385.53		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.51	370.53		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
10/26/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	26.12	363.98		
PZ 14-2 (381.84')	18.78	363.06		
PZ 14-3 (383.23')	20.00	363.23		
PZ 14-4 (381.70')	18.59	363.11		
PZ 14-5 (392.08')	28.00	364.08		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.93	364.02		
MW-3B (386.25')	25.37	360.88		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.54	376.10		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.41	369.63		Measurement taken from lowest section on top of PVC well casing.
11/2/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.72	364.38		
PZ 14-2 (381.84')	18.26	363.58		
PZ 14-3 (383.23')	19.42	363.81		
PZ 14-4 (381.70')	18.11	363.59		
PZ 14-5 (392.08')	27.61	364.47		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	26.56	364.39		
MW-3B (386.25')	25.88	360.37		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.59	377.05		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	12.05	369.99		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/8/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	22.40	367.70		
PZ 14-2 (381.84')	14.34	367.50		
PZ 14-3 (383.23')	15.69	367.54		
PZ 14-4 (381.70')	14.40	367.30		
PZ 14-5 (392.08')	24.42	367.66		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	23.54	367.41		
MW-3B (386.25')	19.51	366.74		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.11	376.53		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	9.32	372.72		Measurement taken from lowest section on top of PVC well casing.
11/19/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	23.07	367.03		
PZ 14-2 (381.84')	15.27	366.57		
PZ 14-3 (383.23')	16.55	366.68		
PZ 14-4 (381.70')	15.22	366.48		
PZ 14-5 (392.08')	25.01	367.07		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	24.03	366.92		
MW-3B (386.25')	21.96	364.29		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.05	376.59		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	9.74	372.30		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
11/30/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	22.05	368.05		
PZ 14-2 (381.84')	14.20	367.64		
PZ 14-3 (383.23')	15.51	367.72		
PZ 14-4 (381.70')	14.19	367.51		
PZ 14-5 (392.08')	23.92	368.16		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	23.08	367.87		
MW-3B (386.25')	20.40	365.85		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.38	376.26		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	9.23	372.81		Measurement taken from lowest section on top of PVC well casing.
12/6/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	23.54	366.56		
PZ 14-2 (381.84')	15.99	365.85		
PZ 14-3 (383.23')	17.24	365.99		
PZ 14-4 (381.70')	15.93	365.77		
PZ 14-5 (392.08')	25.32	366.76		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	24.43	366.52		
MW-3B (386.25')	23.54	362.71		Measurement taken from top of black threaded section.
MH-5 (392.64')	9.37	383.27		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.25	371.79		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/14/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.96	365.14		
PZ 14-2 (381.84')	17.68	364.16		
PZ 14-3 (383.23')	18.87	364.36		
PZ 14-4 (381.70')	17.45	364.25		
PZ 14-5 (392.08')	26.75	365.33		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.70	365.25		
MW-3B (386.25')	25.95	360.30		Measurement taken from top of black threaded section.
MH-5 (392.64')	8.57	384.07		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.54	370.50		Measurement taken from lowest section on top of PVC well casing.
12/20/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	23.50	366.60		
PZ 14-2 (381.84')	16.02	365.82		
PZ 14-3 (383.23')	17.22	366.01		
PZ 14-4 (381.70')	15.92	365.78		
PZ 14-5 (392.08')	25.34	366.74		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	24.45	366.50		
MW-3B (386.25')	23.44	362.81		Measurement taken from top of black threaded section.
MH-5 (392.64')	8.05	384.59		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.69	371.35		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
12/27/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	23.60	366.50		
PZ 14-2 (381.84')	16.05	365.79		
PZ 14-3 (383.23')	17.27	365.96		
PZ 14-4 (381.70')	15.98	365.72		
PZ 14-5 (392.08')	25.38	366.70		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	27.46	363.49		
MW-3B (386.25')	23.85	362.40		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.87	384.77		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.73	371.31		Measurement taken from lowest section on top of PVC well casing.
1/9/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	22.37	367.73		
PZ 14-2 (381.84')	14.69	367.15		
PZ 14-3 (383.23')	15.94	367.29		
PZ 14-4 (381.70')	14.60	367.10		
PZ 14-5 (392.08')	24.18	367.90		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	23.30	367.65		
MW-3B (386.25')	20.80	365.45		Measurement taken from top of black threaded section.
MH-5 (392.64')	6.99	385.65		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	9.47	372.57		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
1/9/2018			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	22.37	367.73		
PZ 14-2 (381.84')	14.69	367.15		
PZ 14-3 (383.23')	15.94	367.29		
PZ 14-4 (381.70')	14.60	367.10		
PZ 14-5 (392.08')	24.18	367.90		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	23.30	367.65		
MW-3B (386.25')	20.80	365.45		Measurement taken from top of black threaded section.
MH-5 (392.64')	6.99	385.65		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	9.47	372.57		Measurement taken from lowest section on top of PVC well casing.
1/18/2019			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.72	365.38		
PZ 14-2 (381.84')	17.47	364.37		
PZ 14-3 (383.23')	18.29	364.94		
PZ 14-4 (381.70')	17.15	364.55		
PZ 14-5 (392.08')	26.39	365.69		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.43	365.52		
MW-3B (386.25')	25.99	360.26		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.08	385.56		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.50	370.54		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
2/1/2019			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.40	365.70		
PZ 14-2 (381.84')	17.05	364.79		
PZ 14-3 (383.23')	18.09	365.14		
PZ 14-4 (381.70')	16.86	364.84		
PZ 14-5 (392.08')	26.12	365.96		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.13	365.82		
MW-3B (386.25')	25.36	360.89		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.29	385.35		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.43	370.61		Measurement taken from lowest section on top of PVC well casing.
2/8/2019			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	22.72	367.38		
PZ 14-2 (381.84')	14.98	366.86		
PZ 14-3 (383.23')	16.22	367.01		
PZ 14-4 (381.70')	14.88	366.82		
PZ 14-5 (392.08')	24.65	367.43		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	23.66	367.29		
MW-3B (386.25')	21.68	364.57		Measurement taken from top of black threaded section.
MH-5 (392.64')	8.73	383.91		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	10.31	371.73		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Walkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
2/22/2019			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	23.89	366.21		
PZ 14-2 (381.84')	16.30	365.54		
PZ 14-3 (383.23')	17.41	365.82		
PZ 14-4 (381.70')	16.17	365.53		
PZ 14-5 (392.08')	25.67	366.41		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	24.74	366.21		
MW-3B (386.25')	23.70	362.55		Measurement taken from top of black threaded section.
MH-5 (392.64')	7.57	385.07		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.10	370.94		Measurement taken from lowest section on top of PVC well casing.
3/1/2019			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	24.69	365.41		
PZ 14-2 (381.84')	17.28	364.56		
PZ 14-3 (383.23')	18.27	364.96		
PZ 14-4 (381.70')	17.12	364.58		
PZ 14-5 (392.08')	26.37	365.71		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.41	365.54		
MW-3B (386.25')	25.49	360.76		Measurement taken from top of black threaded section.
MH-5 (392.64')	15.50	377.14		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.47	370.57		Measurement taken from lowest section on top of PVC well casing.

Monitoring Well(s) Inspection Report for Wallkill River Near Orange County Landfill

Note:				
<i>Monitoring Well readings below, based on April 2015 survey During the replacement of the staff gauge.</i>				
3/8/2019			Weekly Reading	PZ-14-1 → PZ-14-6 Measurements taken from top of PVC well casings.
Monitoring Well Number (Top of PVC Elevation)				
PZ 14-1 (390.10')	25.09	365.01		
PZ 14-2 (381.84')	17.78	364.06		
PZ 14-3 (383.23')	18.74	364.49		
PZ 14-4 (381.70')	17.48	364.22		
PZ 14-5 (392.08')	26.84	365.24		Probe came up with brown water & residue on it.
PZ 14-6 (390.95')	25.72	365.23		
MW-3B (386.25')	26.15	360.10		Measurement taken from top of black threaded section.
MH-5 (392.64')	16.30	376.34		Measurement taken from top of MH Ring Cover Lip.
PZ-4 (382.04')	11.51	370.53		Measurement taken from lowest section on top of PVC well casing.