2019 OPERABLE UNIT 2 GROUNDWATER INVESTIGATION DATA SUMMARY REPORT VPB174

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
SITE 1 OPERABLE UNIT 2
BETHPAGE, NY

Prepared for:

Department of the Navy
Naval Facilities Engineering Command, Atlantic
9324 Virginia Avenue
Building Z-140
Norfolk, Virginia 23511

February 2020

2019 OPERABLE UNIT 2
GROUNDWATER INVESTIGATION

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9324 Virginia Avenue
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Norfolk, Virginia 23511

Prepared by:

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Contract Number: N62470-11-D-8013
Contract Task Order WE15

February 2020

Brian Caldwell

Brian Caldwell
Contract Task Order Manager

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List of Acronyms and Abbreviations

AOC	Area of Concern
bgs	below ground surface
COR	Continuously Operating Reference
DoD	Department of Defense
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency, United States
ESS	Environmental Sequence Stratigraphy
ft	feet
GOCO	Government-Owned Contractor-Operated
GPS	Global Positioning System
IDW	Investigation Derived Waste
IR	Installation Restoration
Katahdin	Katahdin Analytical Services
NAD	North American Datum
NAVD	North American Vertical Datum
NAVFAC	Naval Facilities Engineering Command
NG	Northrop Grumman
NWIRP	Naval Weapons Industrial Reserve Plant
NYSDEC	New York State Department of Environmental Conservation
OU	Operable Unit
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PID	Photoionization Detector
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
SAP	Sampling and Analysis Plan
SVOC	Semivolatile Organic Compounds
TCE	Trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Total Organic Carbon
UFP	United Federal Programs
VOC	Volatile Organic Compounds

VPB	Vertical Profile Boring

1.0 PROJECT BACKGROUND

Resolution Consultants has prepared this Data Summary Report for the Naval Facilities Engineering Command (NAVFAC), Mid-Atlantic under contract task order WE15 Contract N62470-11-D-8013. This report describes vertical profile boring (VPB) installation activities (specifically at the VPB174 location) in 2018 for the Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage Operable Unit (OU) 2 Site 1 offsite plume. NWIRP Bethpage is located in east-central Nassau County, Long Island, New York, approximately 30 miles east of New York City (Figure 1).

1.1 Scope and Objectives

This data summary report provides information on the installation of VPB174. The purpose of the VPB174 investigation was to ascertain subsurface conditions and contaminant levels in the offsite plume south of Hempstead Turnpike and west of Hicksville Road. VPB locations within the general vicinity of VPB174 are shown in Figure 2. VPB174 was completed to 970 feet (ft) below ground surface (bgs).

Field tasks were conducted in 2018 in accordance with the *United Federal Programs Sampling and Analysis Plan (UFP SAP) Site 1 OU2 Offsite Trichloroethene (TCE) Groundwater Plume Investigation*, NWIRP, Bethpage, New York (Resolution Consultants, 2013a) and the *UFP SAP Addendum Installation of Vertical Profile Borings and Monitoring Wells* (Resolution Consultants, 2013b). The field investigation included completing one vertical profile boring, collecting groundwater grab samples, performing geophysical logging, and surveying of the VPB location.

Documentation of these activities is included in Appendix A of this report.

1.2 Site History

NWIRP Bethpage is in the Hamlet of Bethpage, Town of Oyster Bay, New York. Since its inception in 1941, the plant's primary mission was the research, prototyping, testing, design, engineering, fabrication, and primary assembly of military aircraft. The facilities at NWIRP included four plants used for assembly and prototype testing, a group of quality control laboratories, two warehouse complexes (north and south), a salvage storage area, water recharge basins, the Industrial Wastewater Treatment Plant, and several smaller support buildings.

The Navy's property originally totaled 109.5 acres and was formerly a Government-Owned Contractor-Operated (GOCO) facility that was operated by Northrop Grumman (NG) until September

1998. Prior to 2002, the NWIRP property was bordered on the north, west, and south by current or former NG facilities, and on the east by a residential neighborhood. By March 2008, approximately 100 acres of NWIRP property were transferred to Nassau County in three separate actions. The remaining 9 acres and access easements were retained by the Navy to continue remedial efforts at Installation Restoration (IR) Site 1 – Former Drum Marshalling Area and Site 4 – Former Underground Storage Tanks (Area of Concern [AOC] 22). A parcel of land connecting the two sites was also retained. Currently, the 9-acre parcel of NWIRP is bordered on the east by a residential neighborhood and on the north, south, and west by Steel Equities; however, a small portion near Sites 2 and 3 is still owned by Nassau County. Access to the NWIRP is from South Oyster Bay Road.

1.3 Geology and Hydrogeology

1.3.1 Depositional Environment

Resolution Consultants applied a technique known as Environmental Sequence Stratigraphy (ESS) to combine results from regional studies with onsite continuous boring and gamma logs to develop a sequence stratigraphic framework for the Late Cretaceous Turonian age (~94 million years ago) Magothy Formation underlying NWIRP Bethpage. The ESS analysis, including the construction of high-resolution base-wide cross sections, is documented in Appendix B. A summary of salient conclusions regarding the depositional environment, stratigraphy and impact on hydrogreology at the site is provided here.

Previous sequence stratigraphic studies of the New Jersey and New York Coastal Plains have shown that facies successions in the region can largely be explained by global sea level oscillations and sediment supply. The Turonian age sea level changes resulted in several phases of seaward progradation and landward retrogradation that affected the deposition and preservation of lithologic sequences in the Magothy. Periods of elevated or low sea level have a distinct effect on shoreline position and the types of deltaic facies that are deposited on the coastal plain. During high sea level, marine to distal deltaic facies tend to form. In contrast, during periods of low relative sea level, marginal to nonmarine deltaic facies are deposited.

Changes in sediment supply resulting from the tectonic uplift and weathering of the ancestral Appalachians during the Albian stage (~100 million years ago) also influenced depositional environments in the region. The large influx of coarse sediments is reflected in the rapid seaward progradation of the shoreline and extensive delta plain deposits (Magothy Formation) on the New Jersey Coastal Plain.

1.3.2 Stratigraphy

Overburden at the site consists of well over 1,000 ft of unconsolidated deposits overlying crystalline bedrock of the Hartland Formation. Overburden is divided into four geologic units in descending order: the upper Pleistocene deposits, the Magothy Formation, the clay member of the Raritan Formation ("Raritan Clay") and the Lloyd Sand member of the Raritan Formation ("Lloyd Sand") (Geraghty and Miller, 1994).

The upper Pleistocene consists of till and outwash deposits of medium to coarse sand and gravel with lenses of fine sand, silt and clay (Smolensky and Feldman, 1988); these deposits form the Upper Glacial Aquifer. The ESS analysis, based on the coarser lithologic nature of the deposits indicative of glacial outwash, concluded that these continental deposits are considerably thicker than previously thought, ranging from 50 – 300 feet. Directly underlying this unit is the Magothy Formation with a thickness of 650 to 900 ft that extends to a depth of 700 to 1,000 ft bgs, as observed at the former NWIRP and extending southeast to areas south of Southern State Parkway. Locally at VPB174, the bottom of the Magothy (top of the Raritan Clay) is encountered at approximately 956 feet bgs. The Magothy is characterized by fine to medium sands and silts interbedded with zones of clays, silty sands and sandy clays. Sand and gravel lenses are found in some areas between depths of 600 and 880 ft bgs; these deposits form the main groundwater producing zones of the Magothy Aquifer.

Investigations performed by the Navy since 2012 indicate that the bottom of the Magothy (top of the Raritan Clay) can extend to depths of 700 to greater than 1,000 ft bgs. The top of the Raritan Clay deepens to the south-southeast, as evidenced by clay depths of 1,000 ft bgs (or more) in borings installed offsite. The Raritan Clay Unit is of continental origin and consists of clay, silty clay, clayey silt, and fine silty sand. This member acts as a confining layer over the Lloyd Sand Unit. The Lloyd Sand Unit is also of continental origin, having been deposited in a large fresh water lacustrine environment. The material consists of fine to coarse-grained sands, gravel, inter-bedded clay, and silty sand. These deposits form the Lloyd Aquifer.

1.3.3 Hydrogeology

The Upper Glacial Aquifer and the Magothy Aquifer comprise the aquifers of interest at the NWIRP. Regionally, these formations are generally considered to form a common, interconnected aquifer as the coarse nature of each unit near their contact and the lack of any regionally confining clay unit allows for the unrestricted flow of groundwater between the formations.

The Magothy Aquifer is the major source of public water in Nassau County. The most productive water bearing zones are the discontinuous lenses of sand and gravel that occur within the siltier matrix. The major water-bearing zones are coarse sand and gravel lenses located in the lower portion of the Magothy. Because of the presence of intermittent clay layers and the depths, the Magothy Aquifer is commonly regarded to function overall as an unconfined aquifer at shallow depths and a confined aquifer at greater depths. The drilling program at the NWIRP has revealed that clay zones beneath the facility are common but laterally discontinuous. No laterally persistent confining clay units within the onsite or offsite drilling areas have been encountered.

Groundwater is encountered at an average depth of approximately 50 ft bgs at the facility. Historically, because of pumping and recharge at the facility, groundwater depths have been measured to range from 15 to 60 ft bgs. Depth to water in the vicinity of VPB174 is not known but likely to range from 24 to 28 feet bgs (based on the BPOW3-1/3-2 well cluster to the southeast and the RE130D1/D2 well cluster to the south). The regional groundwater flow in the area is to the south-southeast.

The ESS results provide important insight into the distribution of transmissive and storage zones at the Site. Considerable heterogeneity exists in the subsurface due to alternating depositional environments that resulted from changes in sea level and sediment supply. Locally, laterally continuous fluvial sands and distributary mouth bars are inferred to represent high permeability units and conduits for groundwater flow/contaminant transport, however the lateral continuity of those units is variable. Fine grained muds deposited during maximum flooding appear to correlate to contamination data peaks, potentially acting as mass storage units by adsorption of contamination within the matrix of fine-grained muds.

2.0 FIELD PROGRAM

Field investigation activities at VPB174 consisted of drilling, sampling, soil/groundwater analysis, geophysical logging, and surveying. Drilling during this investigation was performed by Delta Well and Pump Company of Ronkonkoma, New York. A description of these tasks is provided below.

2.1 Vertical Profile Borings

One vertical profile boring (VPB174) was completed during this field effort between January 8, 2019 and March 7, 2019. The total depth of VPB174 was 970 ft. The location is shown in Figure 2 and details are summarized in Table 1.

2.1.1 Drilling

In order to prevent sloughing of the borehole through unconsolidated lithologies, VPB174 was installed by setting a 10-inch diameter surface casing to 52 ft bgs and then setting an 8-inch diameter casing to a depth of 120 ft bgs using mud rotary drilling techniques. Drilling mud consisted of potable water and polymer-free sodium bentonite. Drilling mud was contained and re-circulated in baffled, high capacity mud tubs. A sand separator was used intermittently to remove fines from circulation.

2.1.2 Sampling

A total of seven (7) split spoon samples were collected from ground surface to the bottom of the boring for lithologic characterization purposes. A change in geology was observed by the field geologist at 958 ft bgs and three (3) split spoon samples were subsequently collected to confirm the presence of the Raritan Clay. Samples were logged by the field geologist and screened for Volatile Organic Compounds (VOCs) utilizing a photoionization detector (PID). A detailed boring log for VPB174 is included in Appendix A.

Groundwater grab samples using a hydropunch sampler were collected every 50 ft for the first 200 ft of borehole depth. After the first 200 ft, groundwater grab samples were collected approximately every 20 ft until the boring terminated in the Raritan. Groundwater grab samples were collected with a hydropunch sampler and analyzed for VOCs using Environmental Protection Agency (EPA) Method 8260C. The groundwater grab samples were analyzed by Katahdin Analytical Services (Katahdin), a Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP), and New York State Department of Environmental Conservation (NYSDEC)-certified laboratory. During the collection of groundwater grab samples, field parameters were measured (pH, temperature, specific conductivity, oxidation reduction potential, dissolved oxygen, and turbidity). Data validation was performed by Resolution Consultants. Groundwater grab sample logs, data validation packages, and analytical data tables are included in Appendix A.

One soil sample was collected from a depth of 503-505 feet bgs for laboratory analysis for total organic carbon (TOC) by EPA series SW-846 method 9060A. During drilling, air sampling was conducted under a Community Air Monitoring Plan. One air sample was collected using a Summa canister and submitted for laboratory analysis by EPA Method TO-15. All analyses were performed or sub-contracted by Katahdin. Data validation of both TOC and air data was performed by Resolution Consultants. Data validation packages and analytical data tables are included in Appendix A.

2.1.3 Geophysics

Borehole geophysical logs (gamma) were recorded after the borehole was drilled but prior to the removal of drill rods. A Mount Sopris Instrument model 2PGA-100 poly gamma was used. Starting at the top of the hole, the probe was advanced at a maximum rate of 12 ft per minute. A copy of the log was printed in the field for review once the probe reached the bottom of the borehole. The instrument was then raised to the top of the boring and a second log was generated and printed in the field. The down hole gamma log sheets and plots comparing the gamma log with trichloroethene (TCE) and tetrachloroethene (PCE) concentrations from hydropunch samples are included in Appendix A.

2.2 Decontamination and Investigation Derived Waste (IDW)

Resolution Consultants utilized dedicated and disposable sampling equipment when possible to avoid the potential for cross-contamination of samples. The sampling equipment included dedicated plastic scoops, disposable Teflon or polyethylene tubing, disposable gloves, and laboratory supplied sample bottles. Hand held equipment, split spoons, and the hydropunch were decontaminated using Luminox and water wash, a potable water rinse, followed by a distilled water rinse. Water was collected in 5-gallon pails or 55-gallon drums.

As part of the IDW management practices and in accordance with the SAP, the investigation waste (consisting of soil cuttings, drilling muds, IDW fluids, and personal protective equipment [PPE]) generated during the boring installation was containerized and staged at NWIRP Bethpage. IDW solids were characterized and disposed of properly. Representative samples from each roll off were submitted to Katahdin for analysis of:

- Target Compound List (TCL) VOCs
- TCL Semi-volatile Organic Compounds (SVOCs)
- Toxicity Characteristic Leaching Procedure (TCLP) Metals
- Polychlorinated Biphenyls (PCBs)
- Total petroleum hydrocarbons
- Corrosivity
- Ignitability
- Reactive Cyanide

- Reactive Sulfide
- Paint Filter

IDW water was containerized in frac tanks and stored at NWIRP Bethpage for characterization and ultimate disposal to the Publicly Owned Treatment Works (POTW), in accordance with the facilities existing discharge permit. A representative water sample was collected from each frac tank and submitted to Katahdin for analysis of VOCs via Method SW 624, pH via Method SW 9040B, PCBs via Method 8082 and Total Metals via Method SW 846. To the extent feasible, soil and water were not mixed. All analytical criteria were met for disposal of soil and water.

2.3 Surveying

A survey of the boring location was conducted at the end of the fieldwork by C. T. Male, Inc., of Latham, NY, under the direct supervision of Resolution Consultants. The location was tied into the existing base map developed for this investigation. The survey elevation is referenced to the North American Vertical Datum (NAVD) 1988 and has a vertical accuracy of 0.01 foot. Vertical control is based on observations of the Continuously Operating Reference (COR) Stations Queens and Central Islip. The horizontal location is referenced to the North American Datum (NAD) 1983 (2011) N.Y. Long Island Zone 3104 and has an accuracy of 0.1 foot. Local horizontal and vertical control is based on Global Positioning System (GPS) observations using the NYS Net Real Time Network.

A table of survey data (ground, latitude/longitude and northing/easting) and a survey map is included in Appendix A.

3.0 REFERENCES

Geraghty and Miller, Inc., 1994. *Remedial Investigation Report, Grumman Aerospace Corporation, Bethpage, New York*. Revised September 1994.

Naval Facilities Engineering Command (NAVFAC), 2003. *Record of Decision Naval Weapons Industrial Reserve Plant Bethpage, New York, Operable Unit 2 – Groundwater*, NYS Registry: 1-30-003B. April.

Resolution Consultants, 2013a. *United Federal Programs Sampling and Analysis Plan*, *Site 1 OU2 Offsite TCE Groundwater Plume Investigation,* NWIRP, Bethpage, New York. April.

Resolution Consultants, 2013b. *UFP SAP Addendum, Installation of Vertical Profile Borings and Monitoring Wells.* NWIRP, Bethpage, New York. December.

Smolensky, D., and Feldman, S., 1988. *Geohydrology of the Bethpage-Hicksville-Levittown Area, Long Island, New York, U.S*. Geological Survey Water-Resourced Investigations Report 88-4135, 25 pp.

NEW YORK PROFESSIONAL GEOLOGIST SEAL

As a New York-licensed Professional Geologist, I have reviewed and approve this Vertical Profile Boring Data Summary Report for Vertical Profile Boring 174 - Groundwater Investigation at Naval Industrial Reserve Plant Bethpage Operable Unit 2, Site 1, and seal it in accordance with Article 145 Section 7209 of the New York State Education Laws. In sealing this document, I certify it was prepared under my direction, the geological information contained in it is true to the best of my knowledge and the geological methods and procedures included herein are consistent with currently accepted geological practices.

It is a violation of this law for any person to alter the contained drawings or the report in any way, unless he or she is acting under the direction of a NY-licensed Professional Geologist.

Name:	Brian E. Caldwell
NY PG License Number:	000511
State:	New York

B. Caldwell

Signature:

Feb 12 2002

Date:

Tables

TABLE 1
VERTICAL PROFILE BORING SUMMARY
2019 OU2 GROUNDWATER INVESTIGATION
NWIRP BETHPAGE, NY

BORING	BORING START DATE	BORING COMPLETION DATE	GROUND ELEVATION (MSL)	TOTAL DEPTH (ft bgs)	SURFACE CASING SET AT (ft bgs)*	NO. OF SPOON SAMPLES	GEOPHYSICAL LOG DEPTH (ft bgs)	NO. GW SAMPLES COLLECTED/ DUPLICATES/ ATTEMPTED	TOC SAMPLE DEPTH (ft bgs)	DATE OF AIR SAMPLE	MONITORING WELLS INSTALLED AT LOCATION
VPB174	1/8/2019	3/7/2019	58.98	970	52	8	970	38/2/5	503 - 505	2/28/2019	none at this time

MSL - mean sea level
ft bgs - feet below ground surface
GW - Groundwater
TOC - Total Organic Carbon
*8-inch casing installed to 120 feet inside 10-inch casing

Figures

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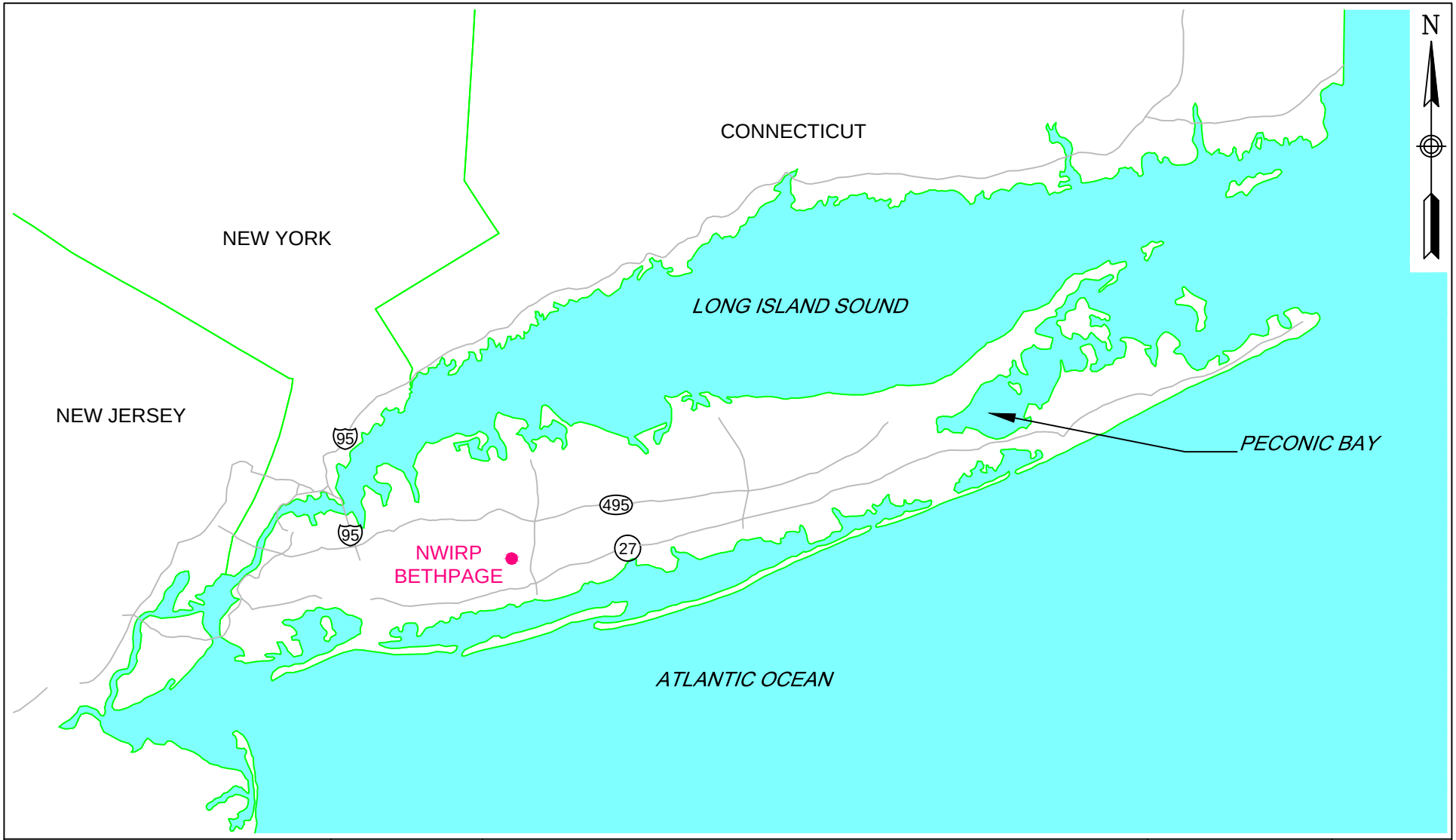


0 15 30

SCALE IN MILES

NAVFAC

GENERAL LOCATION MAP
NWIRP BETHPAGE
BETHPAGE, NEW YORK

CONTRACT NUMBER	CTO NUMBER
N62470-11-D-8013	WE15
APPROVED BY --	DATE --
APPROVED BY --	DATE --
FIGURE NO. 1	REV 0

F:\Projects\NavyBethpage WXE0817.0 Deliverables\7.2 CADD\GIS_files\Bethpage\MAP DOCS\MXD\MISC\Location MapsIF2 VPB174 2019 07 24 R1.mxd

Inset: VPB174 Location

VPB174

VPB174

LWD-5303

VPB125

0 375 750 Feet

N

PWD-7438

Legend

- Monitoring Well
- Vertical Profile Boring
- Vertical Profile Boring - Proposed
- Water Supply Well
- Extraction Well

0 750 1,500 3,000 Feet

VPB174 LOCATION MAP
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK

CONTRACT NUMBER	CTO NUMBER
N62470-11-D8013	WE15
APPROVED BY: PS	DATE: 7/24/2019
APPROVED BY: —	DATE: —
FIGURE NO.: 2	REV: 0

Appendix A

VPB174

Section 1

VPB174 Boring and Gamma Logs

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 1 of 16

Client: Department of the Navy, Naval Facilities Engineering Command, Mid-Atlantic		**Logged By:** V. Thayer
Location: Richard Lane & Libby Lane, Town of Levittown, NY	**Northing:** 199103.05 **Easting:** 1122798.53	**Drilling Company:** Delta Well & Pump
Project #: 60266526	**Ground Elevation (ft amsl):** 58.98	**Well Screen Interval (ft):** NA
Start Date: 1/8/2019	**Drilling Method:** Auger (0-50' bgs) Mud Rotary (>50' bgs)	**Water Level (ft):** NA
Finish Date: 3/7/2019		**Total Depth (ft):** 970.0

Mud Rotary Drilling Note: Unless denoted by a splitspoon sample (indicated by the presence of a PID reading), boundaries between strata are approximate and may be transitional because they are based on screened wash samples collected during mud rotary drilling at 5 ft. intervals.

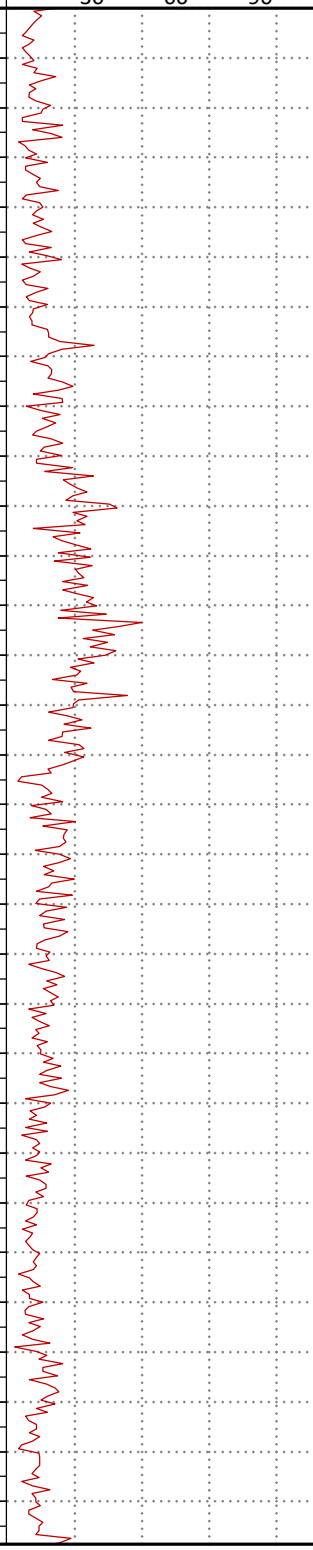
DEPTH (ft)	Gamma Ray (30 60 90)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
0					Upper Glacial (0-100 ft bgs)	OH		Very dark (7.5 YR 3/1) to black (2.5/1) Top Soil.
2						CL		Dark yellowish Brown (10 YR 4/6) Silty CLAY.
4						SM		Strong brown (10 YR 5/6) Silty SAND, few fine to coarse Gravel.
6						SM		Dark yellowish brown (10YR 4/6) Silty SAND, fine to coarse Sand, little silt, few rounded to subrounded fine to coarse gravel.
8								
10								
12						SW-SM		Dark yellowish brown (10 YR 4/6) widely graded SAND with Silt, medium to coarse sand, few fine sand, few subrounded fine to coarse gravel, few silt.
14								
16						SW-SM		Strong brown (10 YR 5/6) widely graded SAND with Silt; fine to coarse sand, few subrounded fine to coarse gravel, few silt.
18								
20						SW		Yellowish brown (10 YR 5/4) widely graded SAND, medium to coarse Sand, few fine sand, little rounded to subrounded fine to coarse gravel, one cobble.
22								
24						SW		Yellowish brown (10 YR 5/4) widely graded SAND, medium to coarse Sand, few fine sand, little fine to coarse gravel.
26								
28						SW		Light yellowish brown (10 YR 6/4) widely graded SAND, medium to coarse Sand, few fine sand, little rounded fine to coarse gravel.
30								
32						SW		Light yellowish brown (10 YR 6/4) medium to coarse SAND, few fine sand, little rounded fine to coarse gravel.
34								
36						SW		Light yellowish brown (10 YR 6/4) widely graded SAND, medium to coarse Sand, little rounded fine to coarse gravel.
38								
40								
42						SW		
44								
46								
48								
50								
52						SW		Strong brown (7.5 YR 5/6) widely graded SAND, fine to coarse Sand, little rounded fine to coarse gravel, one cobble.
54						GP		

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 2 of 16



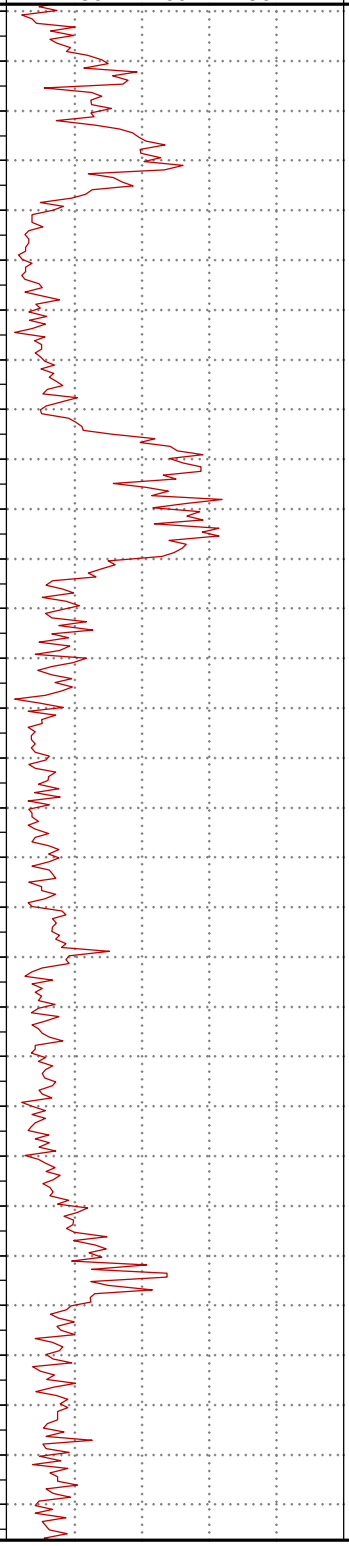
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
54				Upper Glacial (0-100 ft bgs)	GP		White (10 YR 8/1) to very pale brown (10 YR 8/2, 10 YR 8/3) poorly graded GRAVEL, Quartz, subrounded fine gravel, trace clay. *(continued)*
58		<0.5 U	<0.5 U		GP		White (10 YR 6/1) to very pale brown (10 YR 7/4) to brownish yellow (10 YR 6/6) poorly graded GRAVEL, Quartz; rounded to subrounded fine gravel, trace coarse gravel, little subrounded medium to coarse gravel, trace clay.
62					GP		White (10 YR 8/1) to very pale brown (10 YR 8/2, 10 YR 8/3) poorly graded GRAVEL, Quartz, subrounded to rounded fine gravel, little medium to coarse sand, trace silt.
66					GP		White (10 YR 8/1) to very pale brown (10 YR 8/2 - 10 YR 8/4) poorly graded GRAVEL, Quartz, subrounded to rounded fine gravel, little medium to coarse sand, subangular medium sand, trace silt.
70					GP-GM		Gray (10 YR 5/1) poorly graded GRAVEL with Silt, fine subrounded gravel, little sand, few silt.
74					CL		Very dark gray (10 YR 3/1) lean CLAY, Clay, few fine gravel; clay at 77ft (drillers comment).
78					CH		Very dark gray (10 YR 3/1) fat CLAY; Clay with little subrounded to rounded gravel.
82					SC		Gray (10 YR 5/1) clayey SAND, micaceous fine Sand, trace coarse sand, some clay, little gravel, trace iron concretions.
86					SC		Gray (10 YR 6/1) clayey SAND, micaceous fine Sand, few medium sand, little clay, few gravel.
90					SC		Light yellowish brown (10 YR 6/4) clayey SAND, micaceous fine to medium Sand, little clay (25%).
94					SC		Pale brown (10 YR 6/3) clayey SAND, fine to medium Sand, trace coarse sand, trace gravel, little clay (25%).
98		<0.5 U	<0.5 U		SP-SC		Pale brown (10 YR 6/3) poorly graded SAND with Clay, subangular medium sand, few fine sand, trace coarse sand, few clay.
102				Magothy (100-956 ft bgs)	SP-SC		Light yellowish brown (10 YR 6/4) poorly graded SAND with Clay, angular fine to medium sand, trace coarse sand, few clay, several interbedded clay layers, few iron concretions.
106					SC		Very pale brown (10 YR 7/4) clayey SAND, subangular to angular, fine to medium Sand, trace coarse sand, a couple iron concretions, little clay.
110							
114							

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 3 of 16



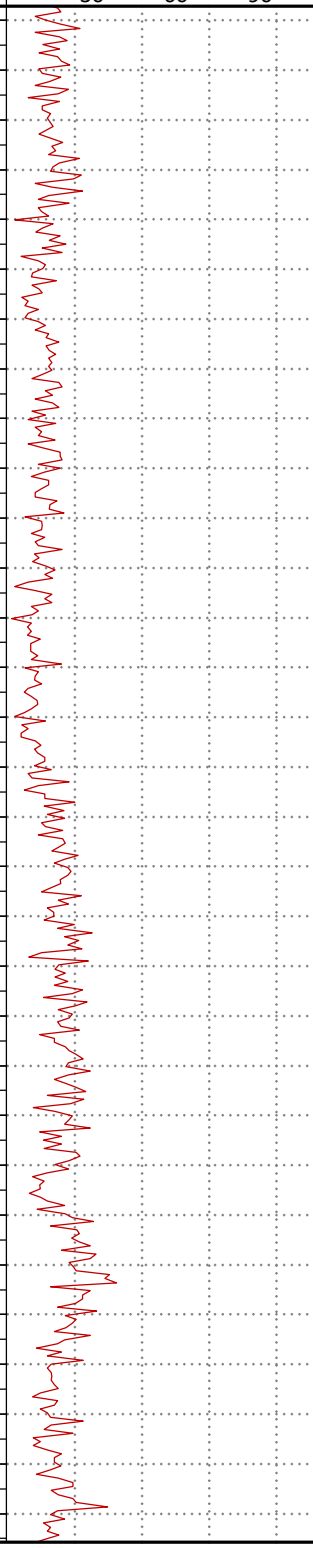
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
116				Magothy (100-956 ft bgs)	SC		
118							Light gray (10 YR 7/1) fine sandy CLAY.
120					SC		
122							
124							Light yellowish brown (10 YR 6/4) silty medium to fine SAND.
126					SM-SP		
128							
130					SP		Light yellowish brown (10 YR 6/4) silty fine to medium SAND, trace Silt.
132							
134							Light yellowish brown (10 YR 6/4) fine to medium SAND, trace Silt.
136					SP		
138							
140							
142							
144					SP		Light brownish gray (10YR 6/2) medium to fine SAND, trace Silt, mica flakes.
146							
148							
150					SP		Grayish brown (10 YR 5/2) coarse to fine SAND, trace Silt.
152							
154					SP		Pale brown (10 YR 6/3) coarse to fine SAND, trace Silt, mica flakes.
156							
158							
160		<0.5 U	<0.5 U		SP-SC		Very pale brown (10 YR 7/3) poorly graded SAND with Clay, angular medium sand with few clay or silt.
162							
164					SC		Very pale brown (10 YR 7/3) clayey SAND, medium Sand, little fine sand, little clay, trace muscovite flakes, two iron nodules.
166							
168							
170					CL		Very pale brown (10 YR 7/3) sandy CLAY, some fine to medium Sand, trace coarse sand, clay.
172							
174					SC		Pale brown (10 YR 6/3) clayey SAND, angular medium Sand, little fine sand, little clay, several iron concretions.
176							

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 4 of 16



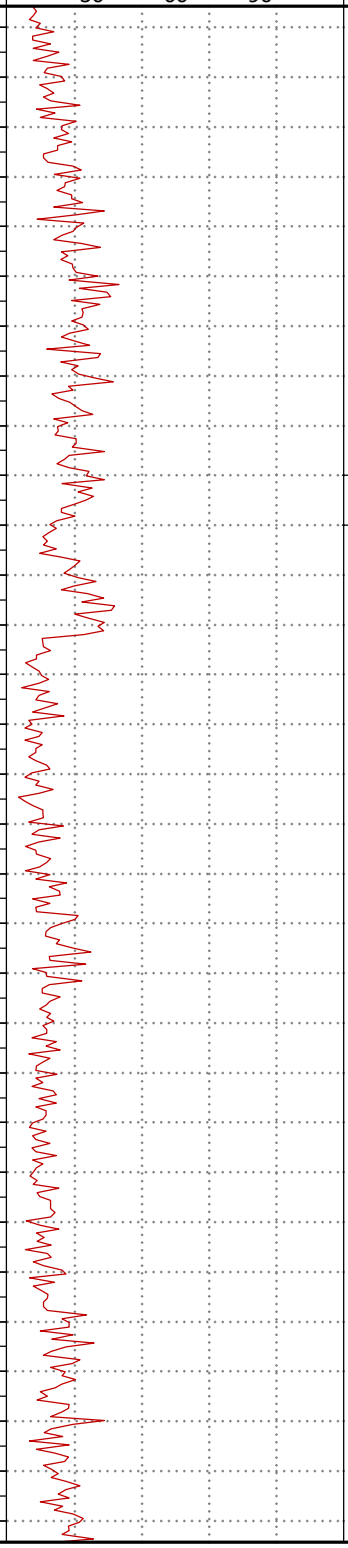
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	MATERIAL DESCRIPTION
178				Magothy (100-956 ft bgs)		
180					SP-SC	Light yellowish brown (10 YR 6/4) poorly graded SAND with Clay, angular medium sand, few fine sand, few iron nodules, few muscovite flakes, few clay.
182						
184					SC	Brown (7.5 YR 5/3) clayey SAND, medium Sand, few fine sand, few iron concretions, some pinkish gray (7.5 YR 6/2) clay.
186						
188						
190						
192						
194						
196						
198						
200		<0.5 U	<0.5 U		SP	Yellowish brown (10 YR 5/4) poorly graded SAND, angular medium Sand, trace coarse sand, trace clay, few iron concretions, a few interbedded pinkish gray (7.5 YR 6/2) clay stringers.
202						
204	0.0				SP	Light yellowish brown (10YR 6/4) fine SAND, little medium Sand, trace silt.
206					SP	Yellowish brown (10 YR 6/4) fine SAND, little medium Sand, trace silt.
208						
210					SC	Light yellowish brown (10 YR 6/4) clayey SAND, fine Sand, little medium sand, little clay, iron concretions, interbedded clay stringers.
212						
214					SC	Pale brown (10 YR 6/3) clayey SAND, fine Sand, some clay, iron concretions.
216						
218						
220		<0.5 U	2.1			
222						
224					SC	Gray (5 YR 5/1) clayey SAND, fine Sand, few medium sand, some clay, muscovite flakes.
226						
228						
230					SP-SM	Gray (10 YR 5/1) poorly graded SAND with Clay, subangular to angular medium sand, little fine sand, lignite fragments, few clay, several iron concretions.
232						
234						
236						
238						
		<0.5 U	<0.5 U		SP	Brownish gray poorly graded SAND, medium Sand.

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 5 of 16



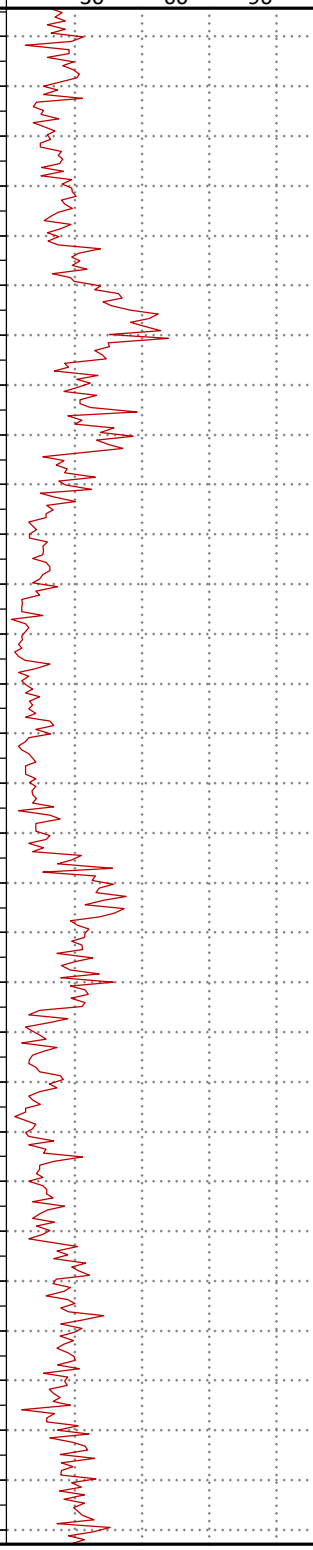
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
240		<0.5 U	<0.5 U	Magothy (100-956 ft bgs)	SP		Brownish gray poorly graded SAND, medium Sand. *(continued)*
242							
244					SC		Dark gray clayey SAND, fine to medium Sand, little clay.
246							
248							
250					SP		Light gray poorly graded SAND, fine Sand, trace silt.
252							
254							
256							
258							
260	0.0				SP		Light gray poorly graded SAND, fine Sand, trace silt.
262					CL		Lean CLAY (drillers comment)
264		<0.5 U	<0.5 U		SM		Very dark gray (10 YR 3/1) silty SAND, fine Sand, some silt, lignite fragments, muscovite flakes.
266					SM		Very dark gray (10 YR 3/1) silty SAND, fine to medium Sand, trace coarse sand, lignite fragments, little silt.
268							
270					SP-SM		Very dark gray (10 YR 3/1) poorly graded SAND with Silt, fine to medium sand, trace coarse sand, few silt, lignite fragments.
272							
274					SM		Very dark gray (10 YR 3/1) silty SAND, medium Sand, little fine sand, little silt,trace coarse sand, lignite fragments.
276							
278							
280		<0.5 U	<0.5 U		SM		Very dark gray (10 YR 3/1) silty SAND, fine to medium Sand, some lignite flakes, little silt.
282							
284					SM		Very dark gray (10 YR 3/1) silty SAND, medium Sand, little fine sand, a few iron concretions, lignite flakes, some silt, muscovite flakes.
286							
288							
290					CL		Very dark gray (10 YR 3/1) sandy Clay.
292							
294					SP-SM		Dark gray (10 YR 4/1) poorly graded SAND with Silt, medium sand, little fine sand, few silt, lignite fragments, several muscovite flakes.
296							
298							
300		<0.5 U	<0.5 U		SP-SM		Dark gray (10 YR 4/1) poorly graded SAND with Silt, angular medium sand, little fine sand, few silt, muscovite flakes, lignite pieces.

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 6 of 16



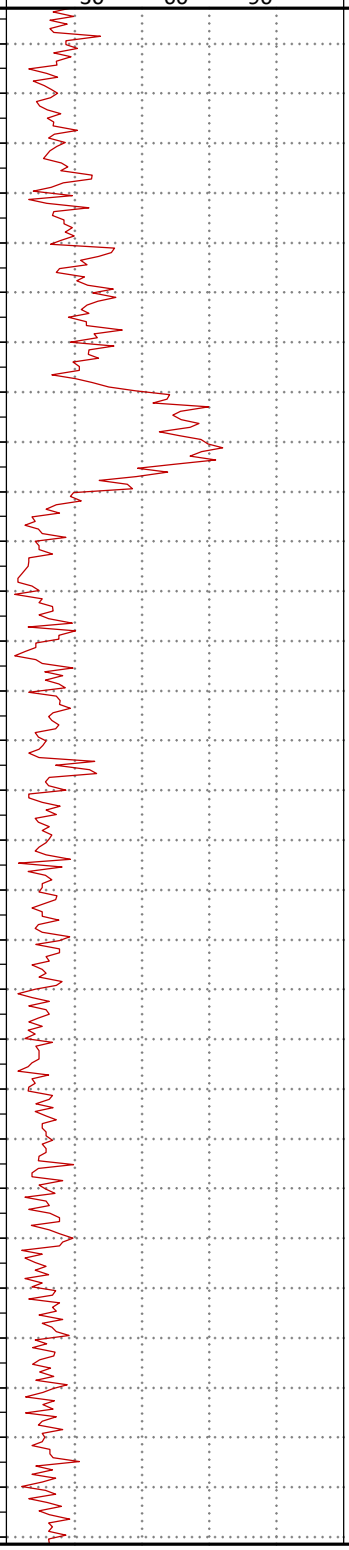
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
302				Magothy (100-956 ft bgs)	SP-SM		
304					SM		Dark gray (10 YR 4/1) silty SAND, fine to medium Sand, lignite fragments, muscovite flakes.
306							
308							
310					CL		Dark gray (10 YR 4/1) lean CLAY.
312							
314					SC		Dark gray (10 YR 4/1) clayey SAND.
316							
318							
320		<0.5 U	<0.5 U		SM		Dark gray (10 YR 4/1) silty SAND, subangular to angular medium Sand, little fine sand, some lignite flakes, few muscovite flakes.
322							
324					CH		Dark gray (10 YR 4/1) sandy fat CLAY, fine Sand, few medium sand, lignite flakes.
326							
328							
330					SM		Gray (10 YR 5/1) silty SAND, medium Sand, little fine sand, little silt, lignite fragments, muscovite flakes.
332							
334					CL		Very dark gray (10 YR 3/1) lean CLAY.
336							
338							
340		<0.5 U	<0.5 U		SM		Gray (10 YR 5/1) sandy SILT, little fine to medium Sand, muscovite flakes, lignite gragments, silt.
342							
344					SP-SM		Dark gray (7.5 YR 4/1) poorly graded SAND with Silt, fine to subangular medium sand, 10 - 15% silt, lignite fragments.
346							
348							
350					SC		Very dark gray (10 YR 3/1) clayey SAND, fine Sand, few medium sand, little clay, lignite flakes.
352							
354					SP-SM		Gray (10 YR 5/1) poorly graded SAND with Silt, subangular medium sand, little fine sand, few silt, lignite flakes.
356							
358							
360		<0.5 U	<0.5 U		SP-SM		Gray (10 YR 5/1) poorly graded SAND with Silt, fine to medium sand, few silt, lignite fragments.
362							

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 7 of 16



DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
364				Magothy (100-956 ft bgs)	SM		Gray (Gley 1 5/) silty SAND, fine to medium Sand, little clay, lignite fragments, few muscovite.
366							
368							
370					SC		Dark gray (10 YR 4/1) clayey SAND, fine Sand, little medium sand, little clay, lignite fragments, muscovite flakes.
372							
374					SC		Dark gray (10 YR 4/1) clayey SAND, fine Sand, little medium sand, some clay, lignite flakes.
376							
378							
380					CL		Dark gray lean CLAY (driller's comment)
382					ML		Very dark gray (10 YR 3/1) sandy SILT, some fine Sand, silt.
384		<0.5 U	<0.5 U		SM		Dark gray (10 YR 4/1) silty SAND, fine to medium Sand, some silt, muscovite flakes.
386							
388							
390							
392							
394					SM		Dark gray (10 YR 4/1) silty SAND, medium Sand, little fine sand, some silt, lignite framents, trace muscovite flakes.
396							
398							
400		<0.5 U	<0.5 U		CL		Gray (10 YR 5/1) sandy CLAY, some Sand, medium sand, little fine sand, lignite fragments, trace muscovite flakes.
402							
404					SC		Grayish brown (10 YR 5/2) clayey SAND, medium Sand, little fine sand, some clay, lignite fragments, few muscovite flakes. Clay 404 - 406 (driller's comment).
406							
408							
410					SP-SM		Grayish brown (10 YR 5/2) poorly gradded SAND with Silt, angular medium sand, little fine sand, lignite fragments, few muscovite flakes, few silt.
412							
414					SM		Grayish brown (10 YR 5/2) silty SAND, fine to medium Sand, few muscovite flakes, few silt, lignite fragments.
416							
418							
420		<1 UJ	<1 UJ		SP		Grayish brown (10 YR 5/2) poorly graded SAND, fine to medium Sand, trace silt, few muscovite flakes.
422							
424					SC		

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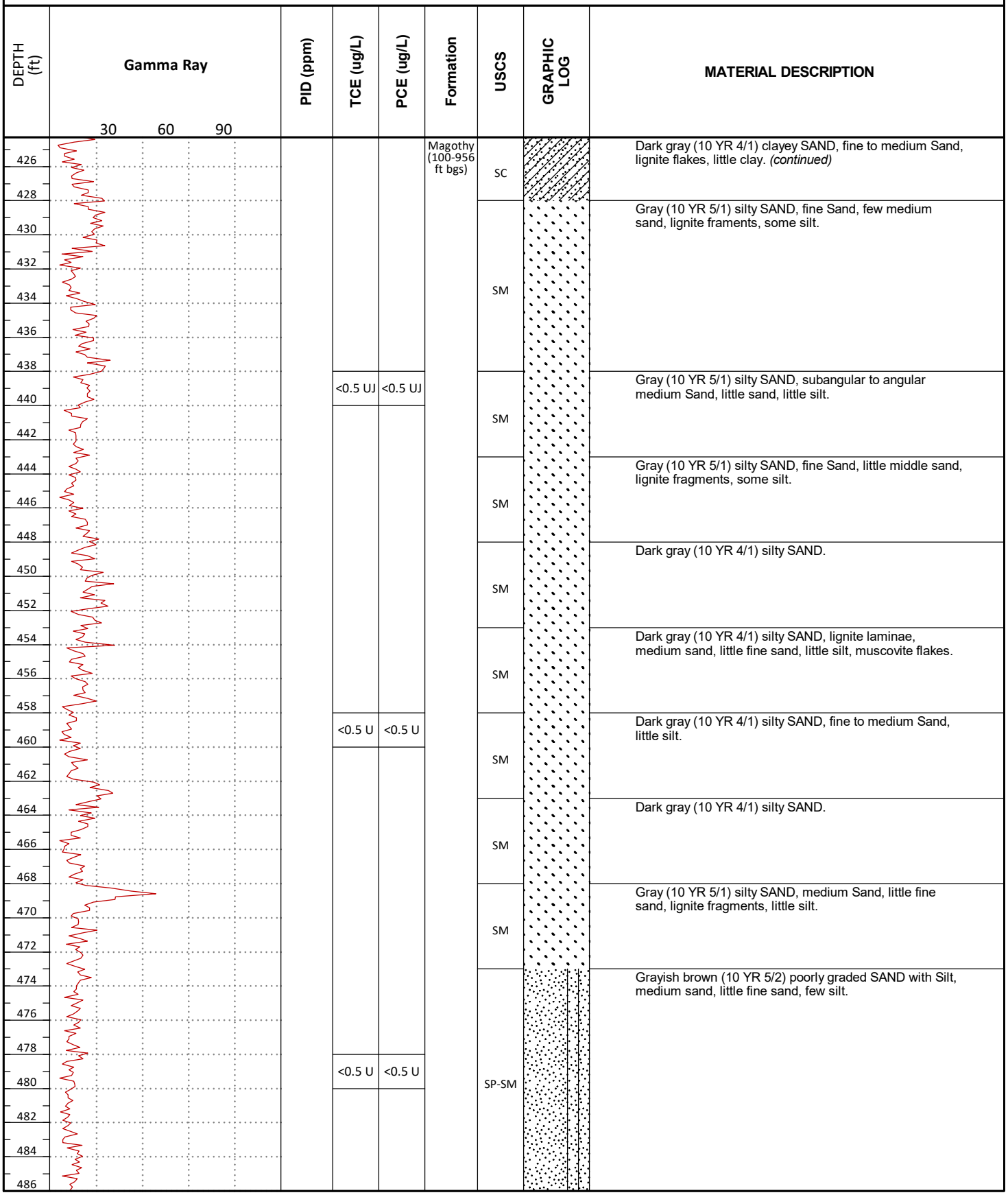
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 8 of 16



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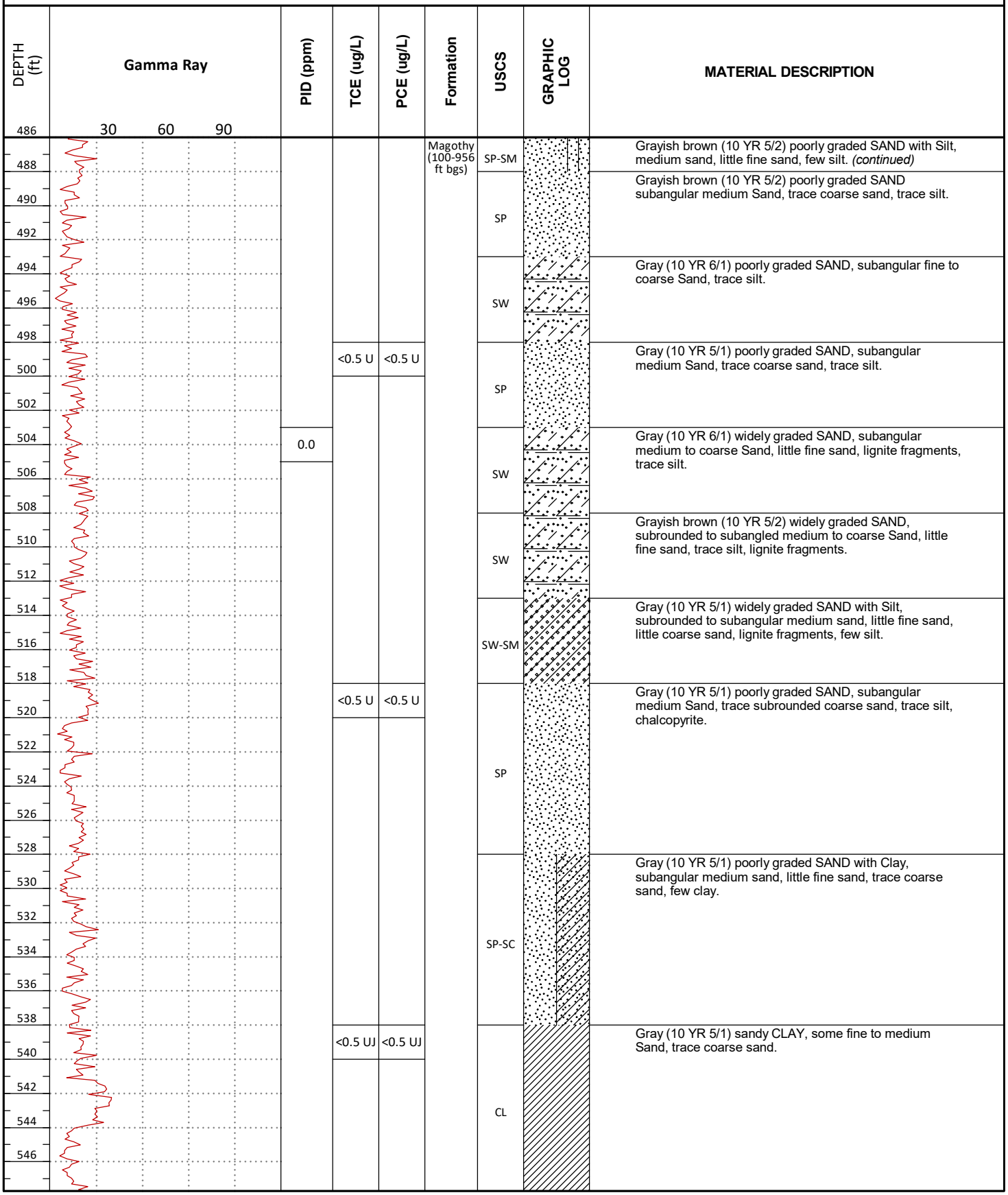
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 9 of 16



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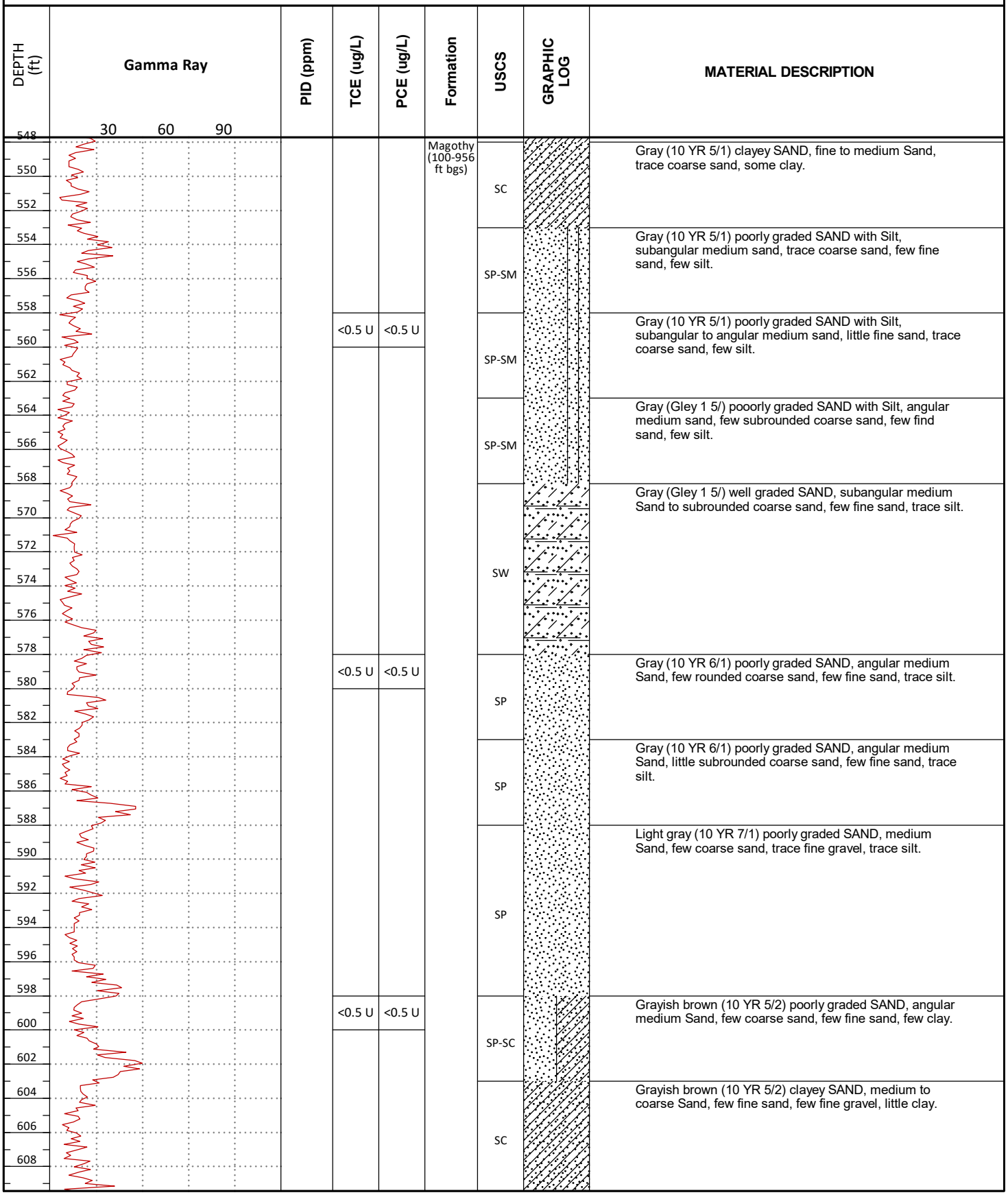
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 10 of 16



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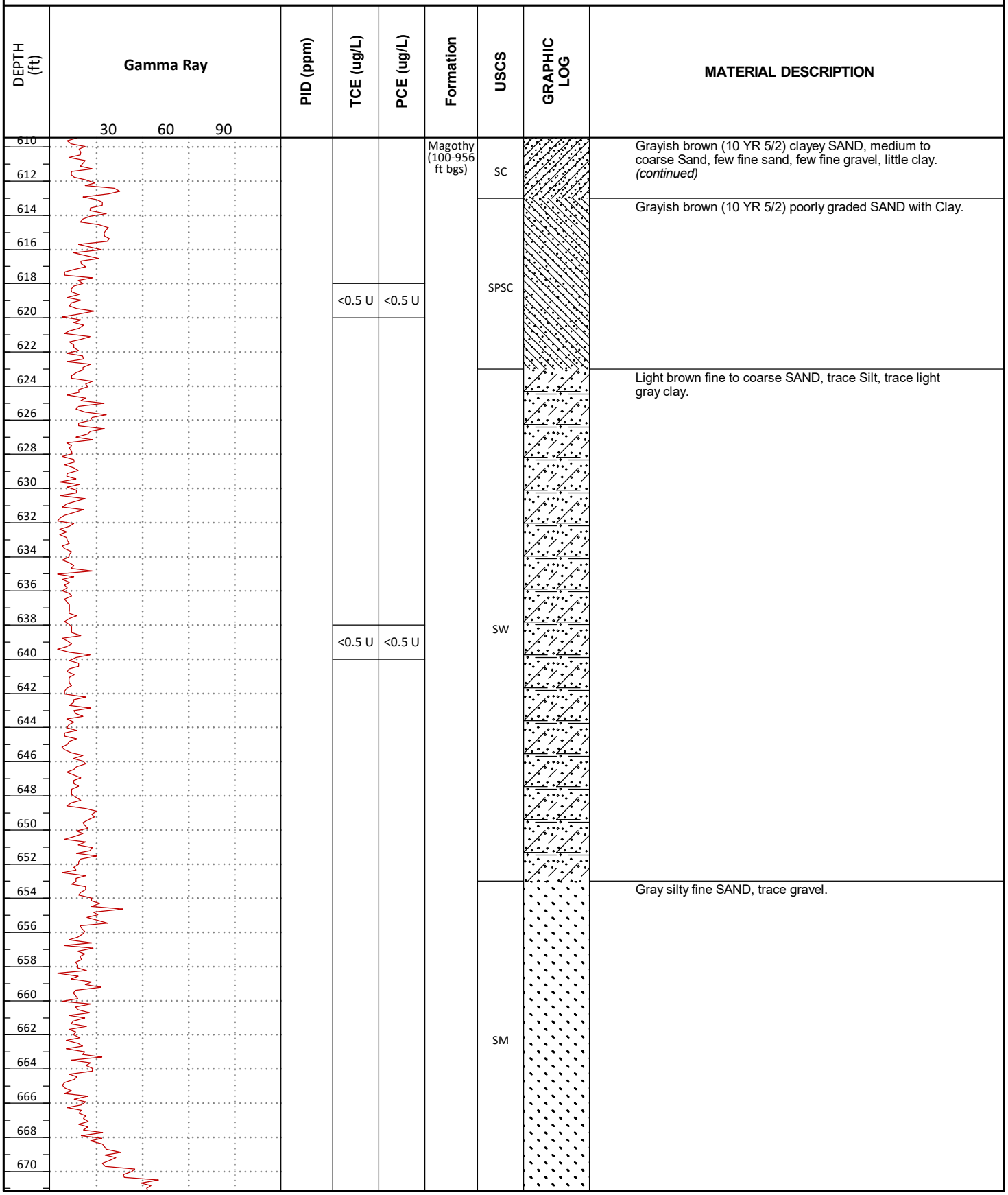
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 11 of 16



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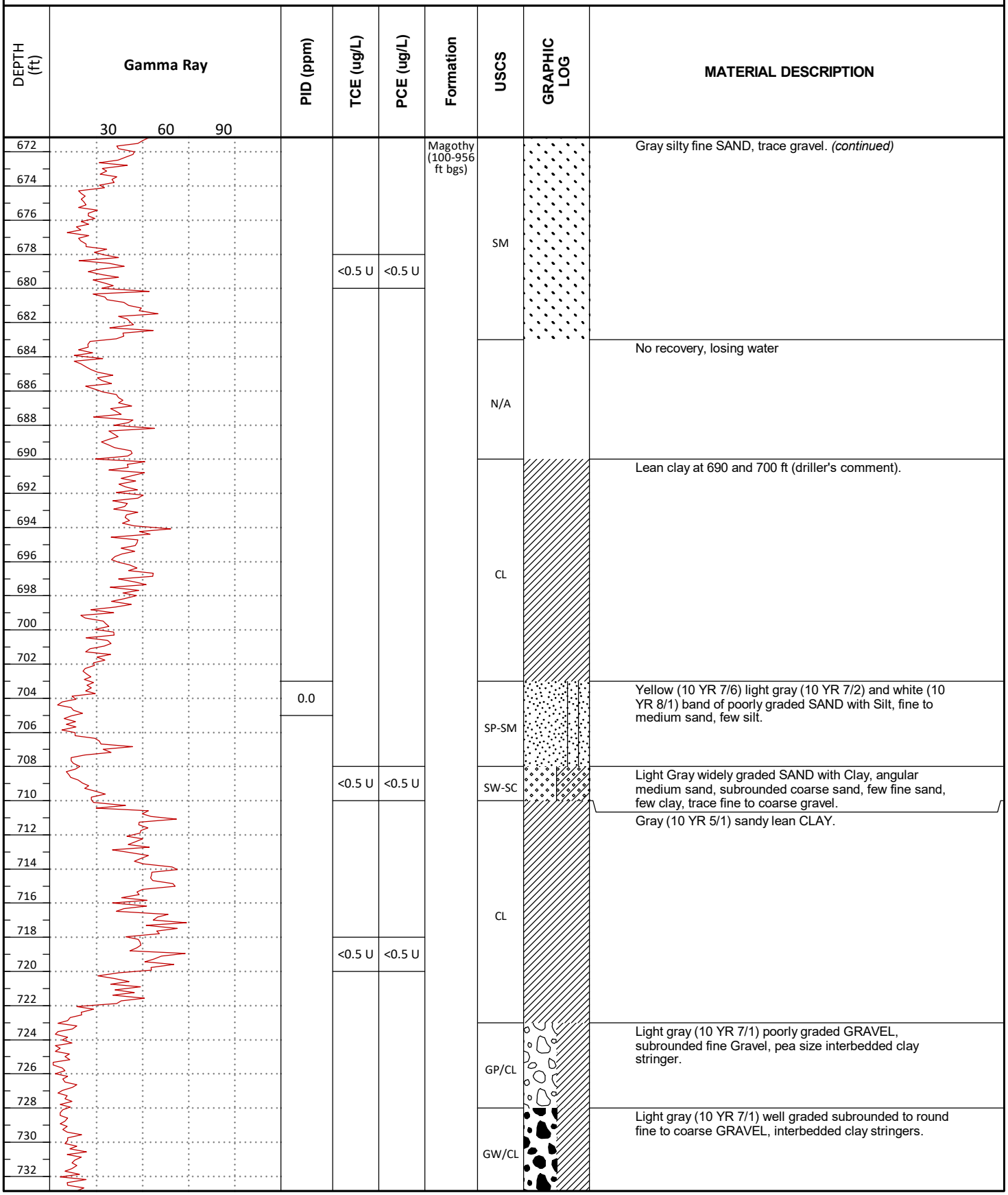
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 12 of 16



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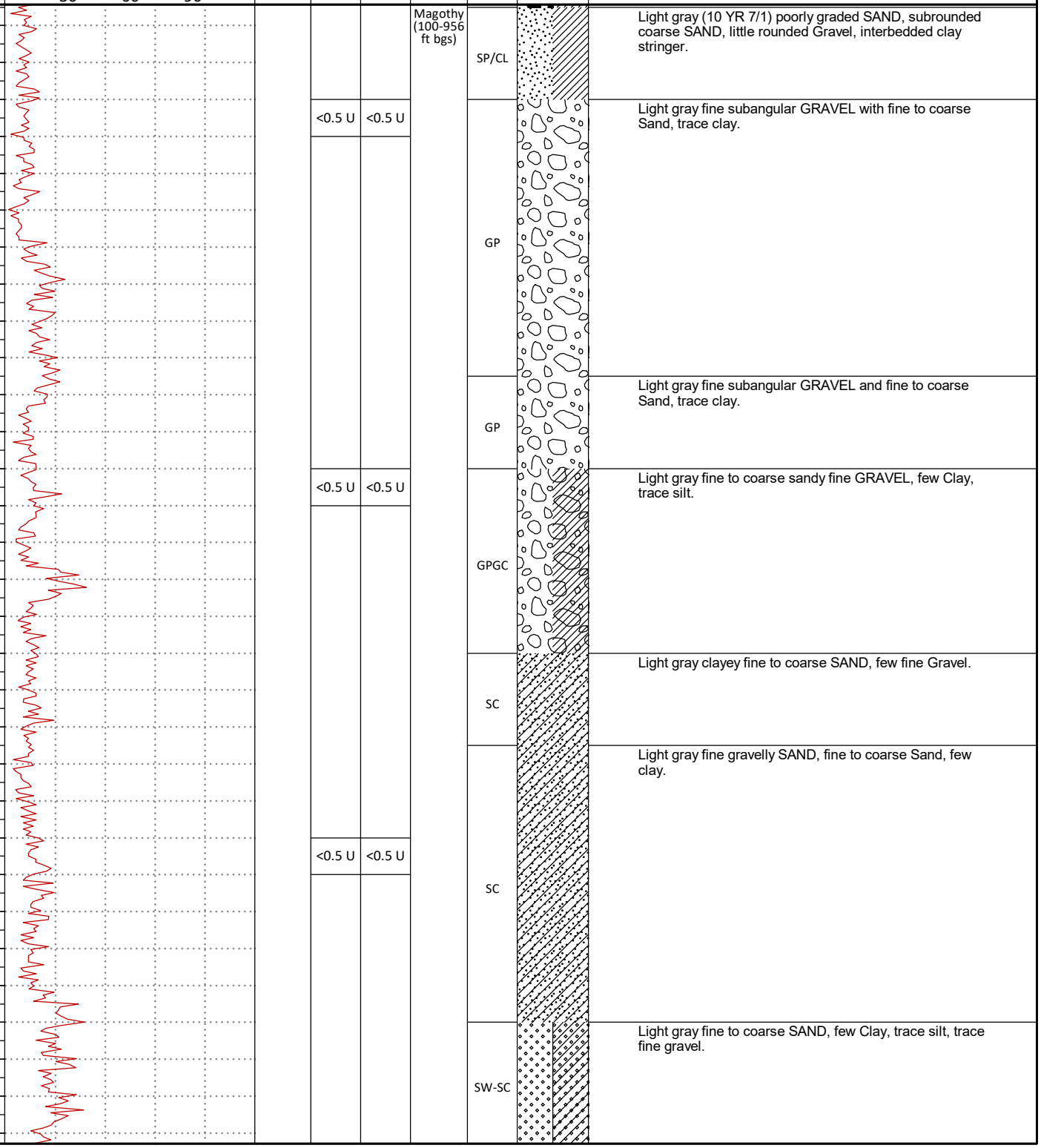
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 13 of 16



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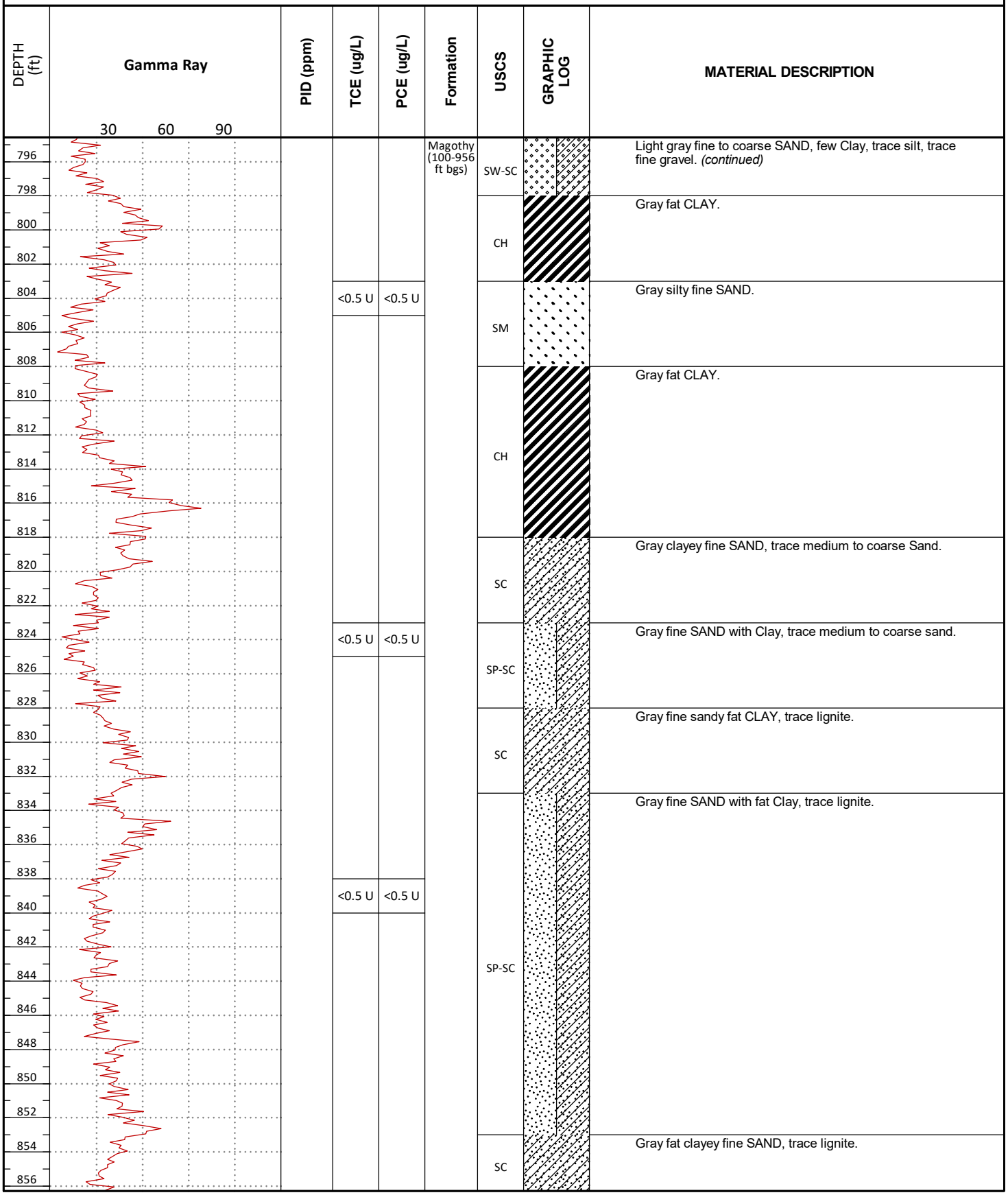
Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 14 of 16



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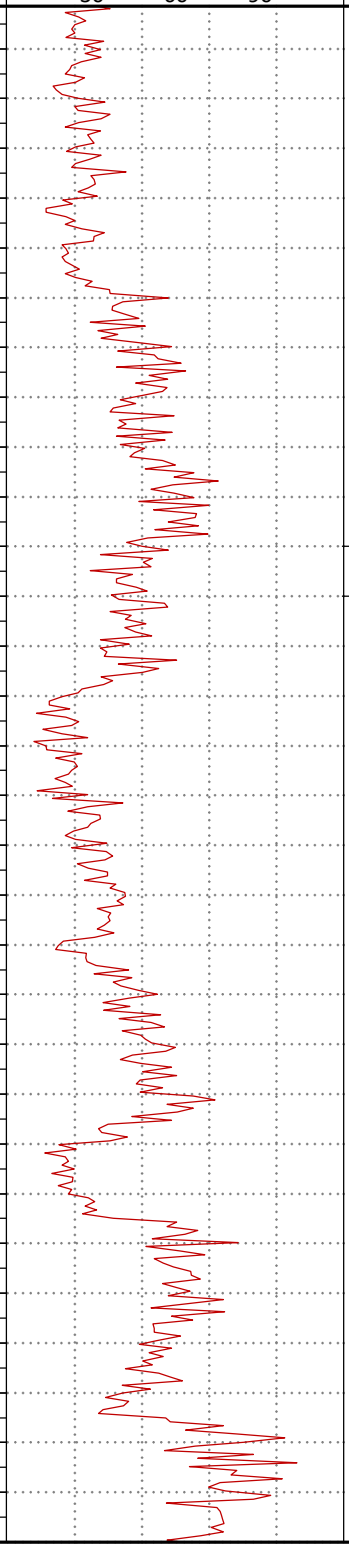
Boring Log

BORING #: VPB174
Sheet 15 of 16



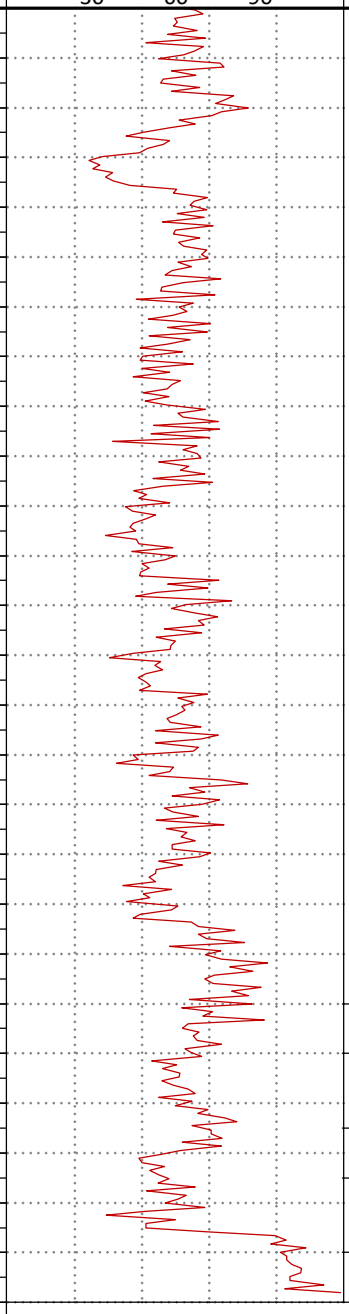
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
858				Magothy (100-956 ft bgs)	SC		Gray fat clayey fine SAND, trace lignite. *(continued)*
860		<0.5 U	<0.5 U		SP-SC		Gray fine SAND with fat Clay, trace lignite, trace medium to coarse sand.
880	0.0						
882					SP-SC		Light gray fat CLAY with fine Sand, trace lignite.
884							
886							Light gray fine to medium SAND with fat Clay, trace lignite.
888					SW-SC		
890		<0.5 U	<0.5 U				
892							
894					CH		Gray fine to medium sandy fat CLAY.
904		<0.5 UJ	<0.5 UJ				
914					CH		Gray fine to medium sandy silty fat CLAY.
916							
918							

(Continued Next Page)

Resolution Consultants

Boring Log

BORING #: VPB174
Sheet 16 of 16



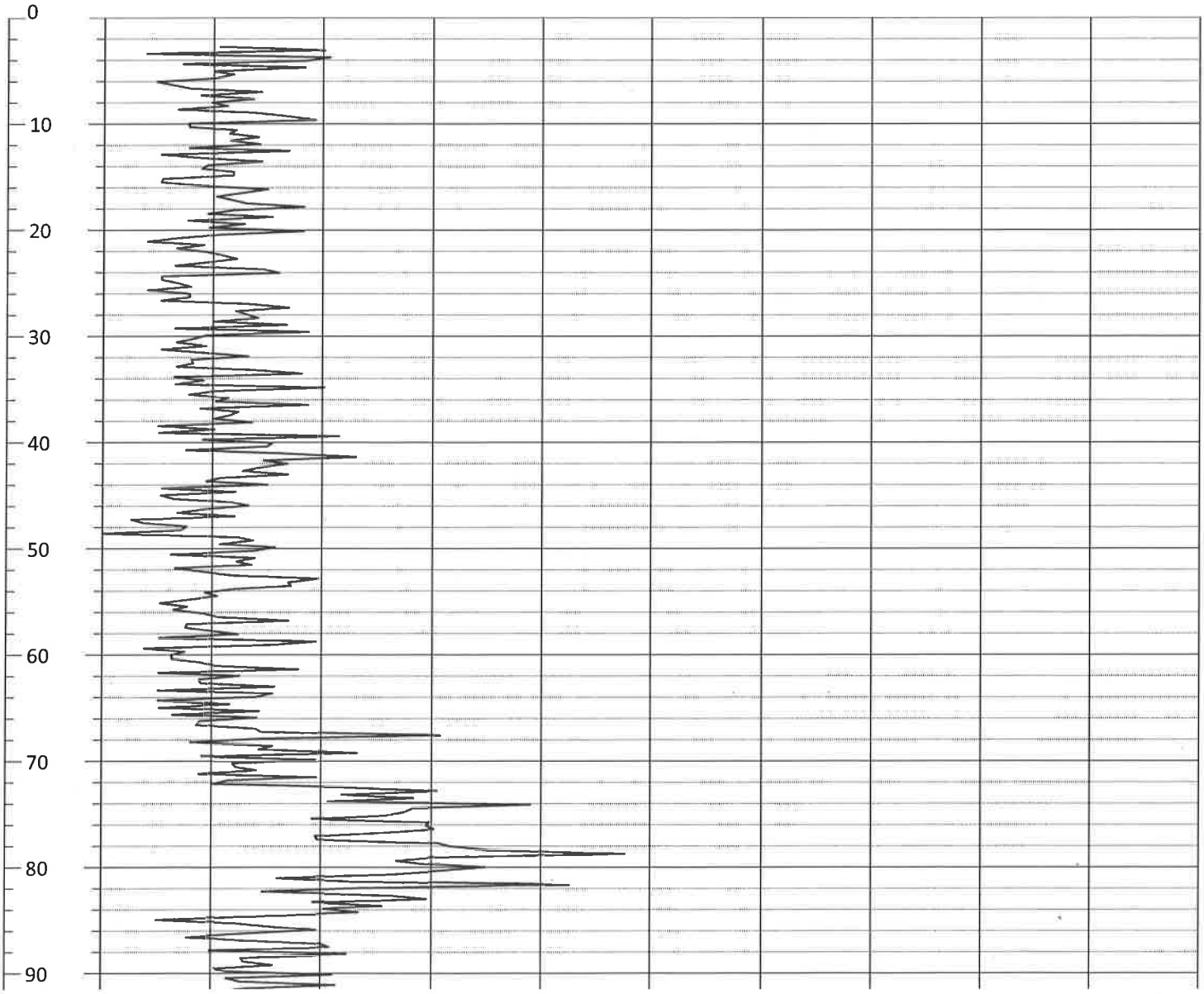
DEPTH (ft)	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
918				Magothy (100-956 ft bgs)	CH		Gray fine to medium sandy silty fat CLAY. *(continued)*
944					CL-CH		Dark gray clay, medium plasticity.
948					CL		Dark gray CLAY (N4), trace fine Sand.
958				Raritan (956 ft bgs)			
960	0.0				CL		Gray CLAY (N6) reddish (10 R 5/4) mottles, very dense.
964	0.0				CL		Weak red CLAY (10 R 5/4), very dense.
970	0.0				CL		Weak red CLAY (10 R 5/4) over white (10 R 8/1) Clay.
							End of boring at 970.0 ft. bgs.

DOWN HOLE

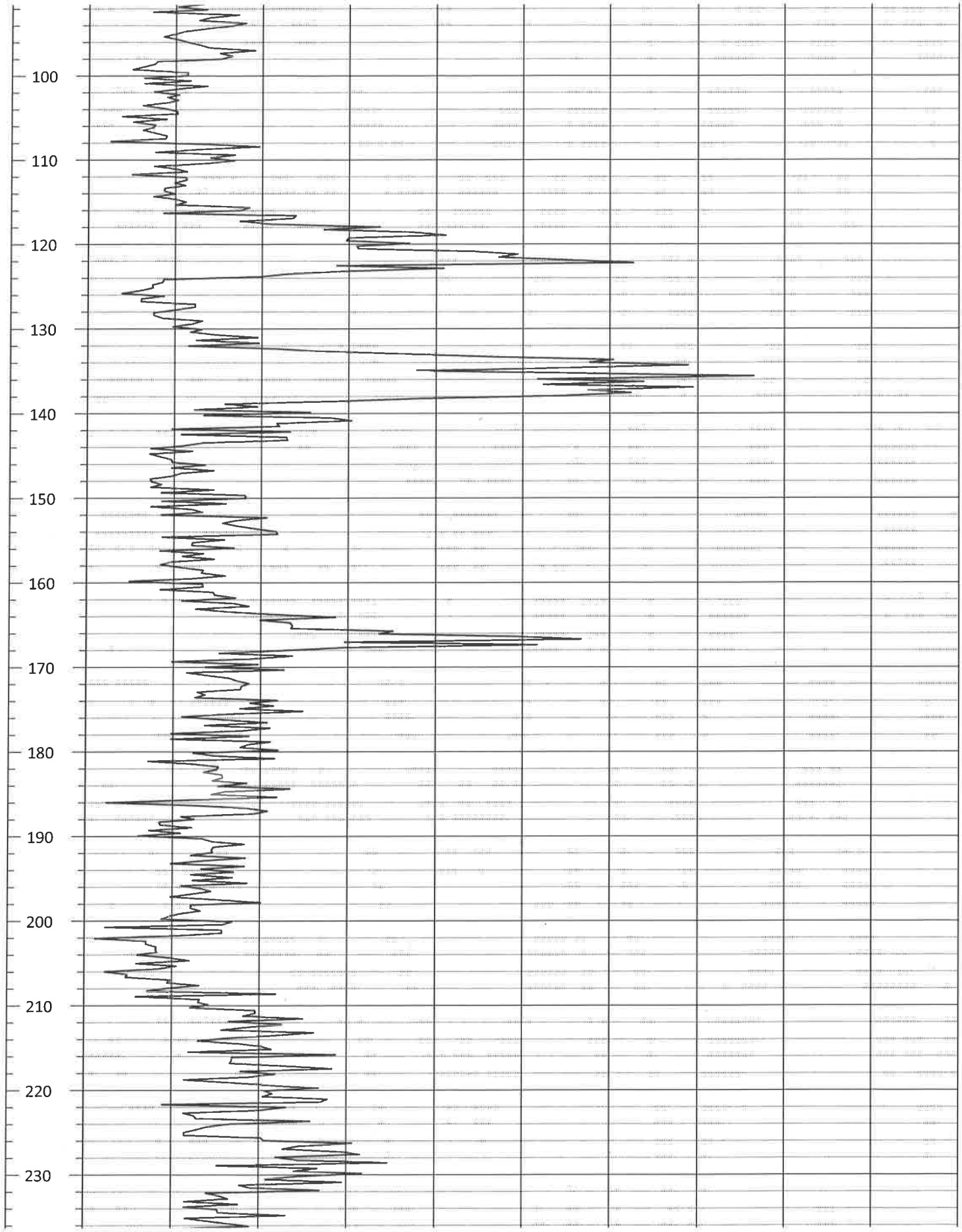
COMPANY:	DELTA WELL & PUMP CO., INC.
LOCATION:	RICHARD & LIBBY LANES

Well: VPB-174		Depth Driller:
		Depth Logger:
Date: 03-01-2019	Time:	Logged by: CMO
File Name: 739		Witness:

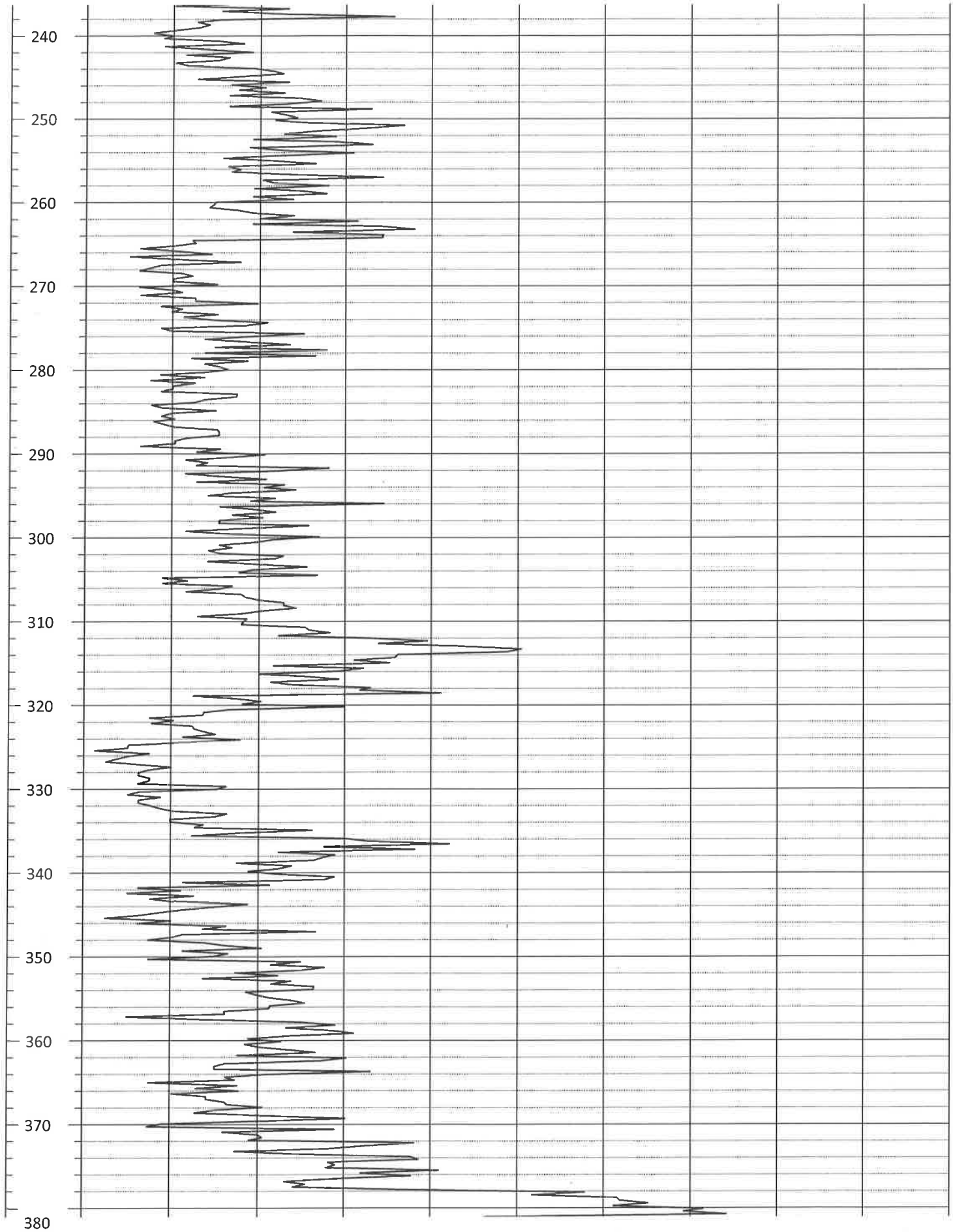
Depth (ft.)	GAMMA (cps)	
0.0		100.0



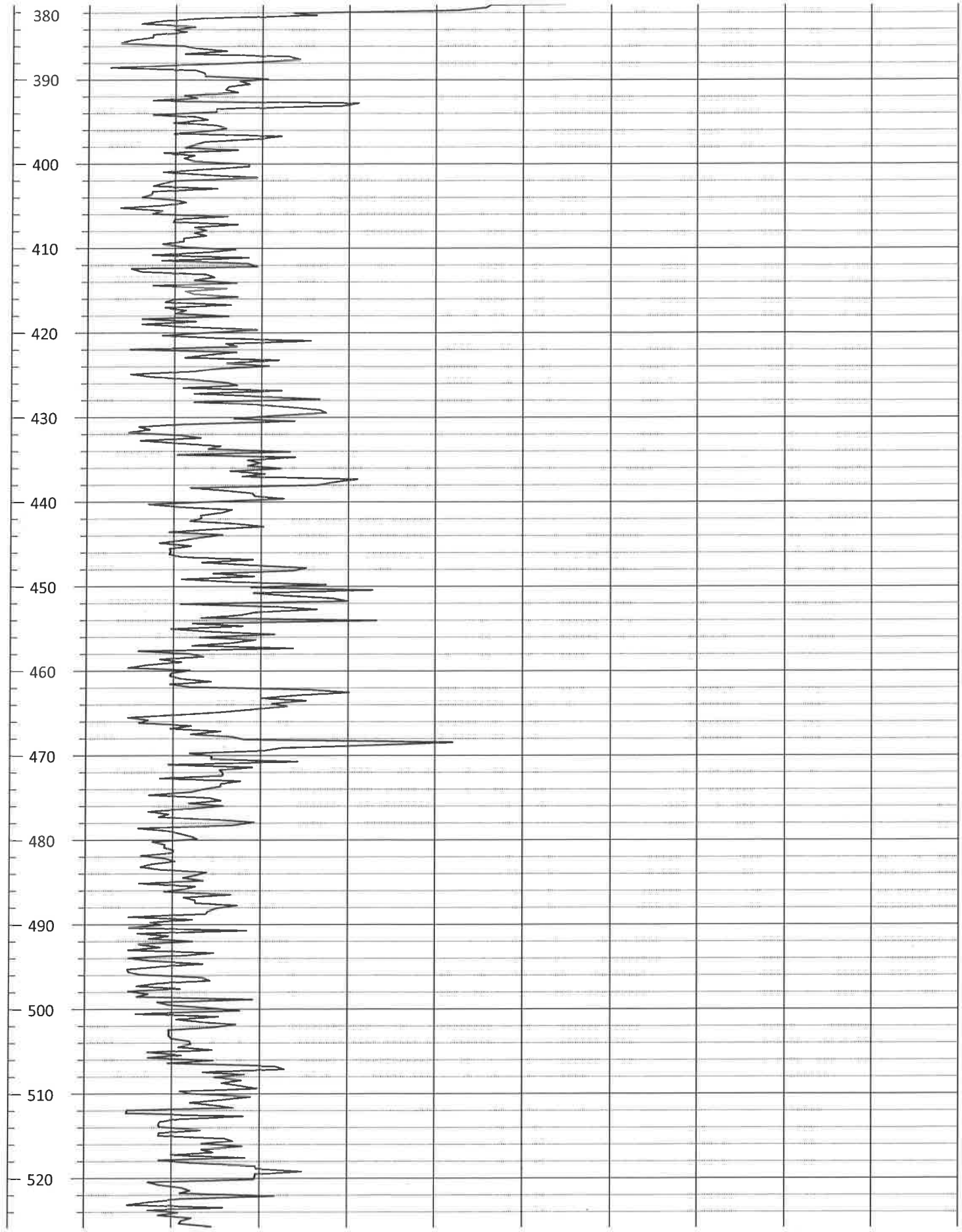
Depth (ft.)	GAMMA (cps)	
0.0		100.0



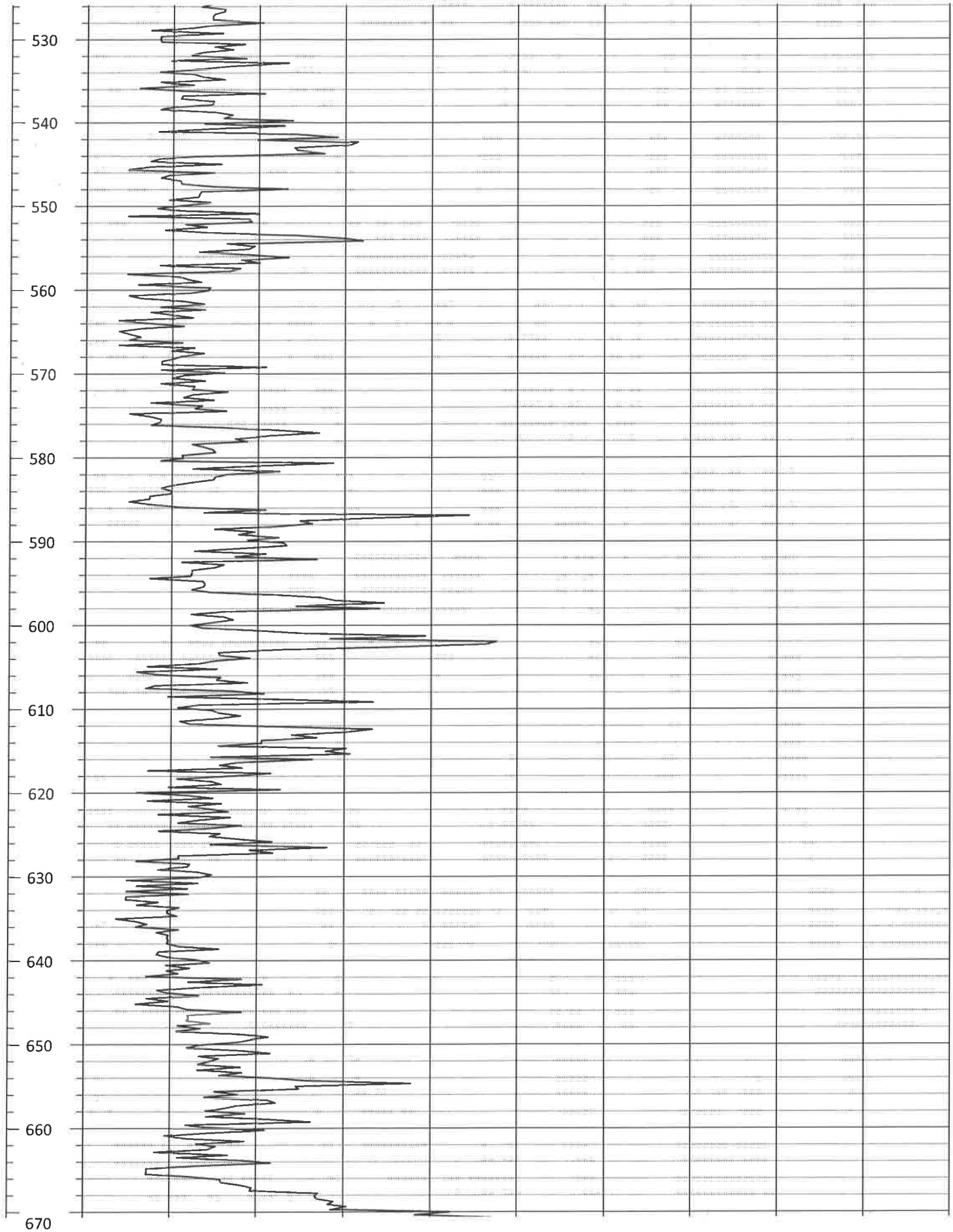
Depth (ft.)	0.0	GAMMA (cps)	100.0



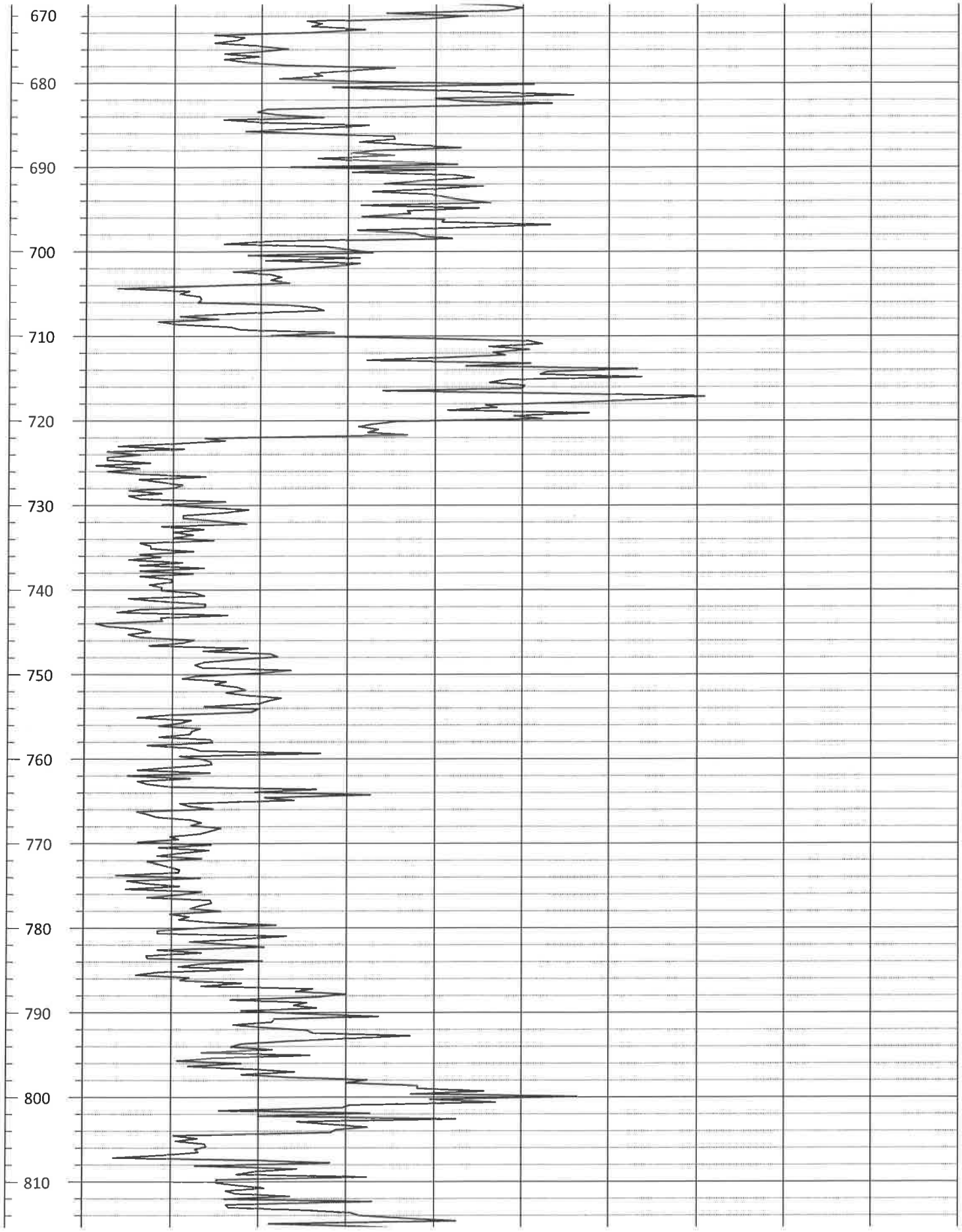
Depth (ft.)	0.0	GAMMA (cps)	100.0



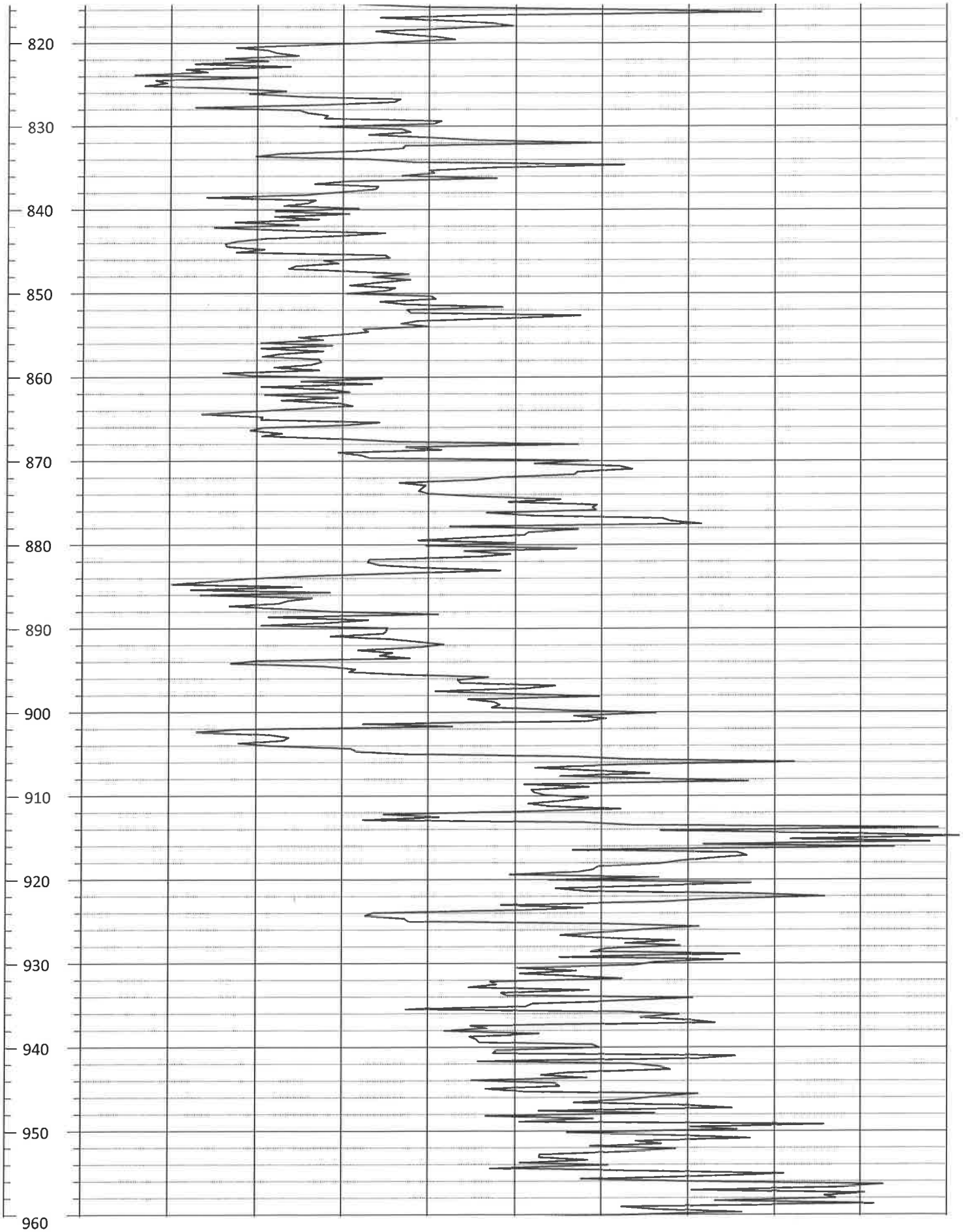
Depth (ft.)	0.0	GAMMA (cps)	100.0



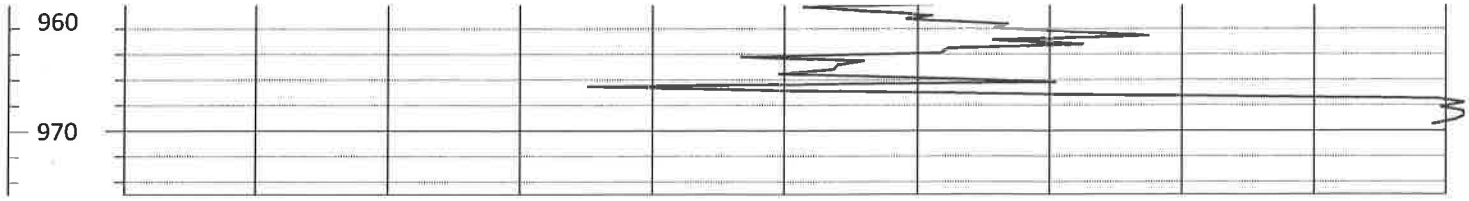
Depth (ft.)	0.0	GAMMA (cps)	100.0



Depth (ft.)	0.0	GAMMA (cps)	100.0



Depth (ft.)	0.0	GAMMA (cps)	100.0

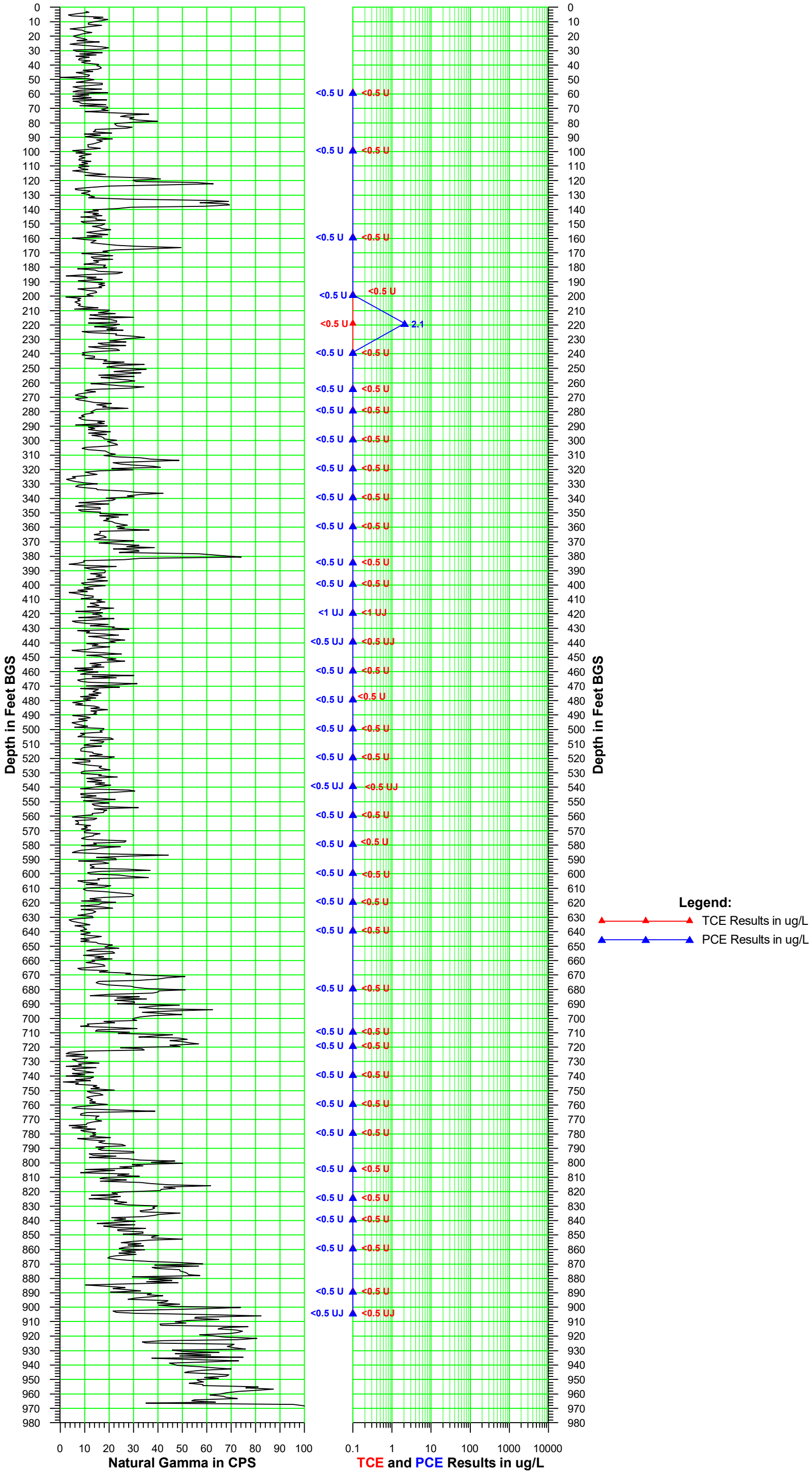


Depth (ft.)	GAMMA (cps)	
	0.0	100.0

Section 2

VPB174 Gamma and PCE/TCE Plot

Vertical Profile Boring VPB-174
Downward Run - March 1, 2019
Validated Analytical Data



Section 3

VPB174 Groundwater Sample Log Sheets

VPB174	Project #60266526			Collector:					NWIRP Bethpage		
Sample date	Time	Temp (oC)	pH	Spec. Cond. (us/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Starting depth (ft)	Ending depth (ft)	Color	Comments
1/23/2018	1530		6.53	333.6	8.47	14.4	898.2	58	60	brown	
1/24/2019	1130		6.34	341.3	2.13		50.79	98	100	clear	
1/29/2019	1045	0.5	6.41	371	7.70	-45.4	1100	158	160	clear to yellowish brown	
1/29/2019	1430	YSI not functioning					635.7	198	200	pale yellow	
2/4/2019	1000	7.5	5.95	265.6	4.28	86.5	227.6	218	220	clear to v pale brown	
2/4/2019	1330	8.2	5.88	268.6	3.33	-69.7	100.4	238	240	very pale gray	
2/5/2019	1030	11.9	5.98	291.6	1.52	-75.3	343	263	265	pale gray	
2/5/2019	1215	15.7	6.01	267.2	2.28	-83.3	257.1	278	280	clear to pale gray	
2/5/2019	1400	14.7	5.97	213.2	3.19	-39.7	403	298	300	clear to v pale gray	
2/6/2019	1115	10.8	6.05	185.3	2.38	-43.7	639	318	320	pale gray	
2/6/2019	1400	11.4	6.03	238	3.41	-25.2	291.2	338	340	clear	
2/6/2019	1545	11.4	5.90	249.2	5.11	27.3	366.2	358	360	clear to v pale gray	
2/7/2019	1050	drilling mud - not sampled						378	380	very dark gray	drilling mud - no hydropunch sample collected
2/7/2019	1315	9.7	6.25	287.8	3.28	-114.5	197.9	383	385	very pale gray	
2/7/2019	1515	11.0	6.73	346.8	6.75	241.1	off scale	398	400	gray	
2/8/2019	1045	19.9	6.87	475.1	0.5	283.7	off scale	418	420	gray	
2/8/2019	1315	20.7	6.38	270.7	0.71	-151.2	177	438	440	clear to gray	
2/11/2019	1115	17.3	6.00	237.8	2.25	-55.7	87.06	458	460	clear to very pale gray	
2/11/2019	1330	16.7	5.68	181.4	3.04	-26.9	487.7	478	480	gray	
2/12/2019	1045	6.7	5.42	196	4.51	-59.8	342	498	500	very pale brownish gray	
2/12/2019	1415	11.0	5.90	226.7	3.64	-60.1	622.1	518	520	very pale gray	
2/13/2019	1115	8.0	5.09	230.2	4.11	134.4	off scale	538	540	gray	
2/13/2019	1400	10.8	6.06	247.7	2.16	-142.4	505	558	560	cloudy pale gray	
2/14/2019	1115	14.1	5.98	236.6	3.61	-37.9	127.6	578	580	clear	
2/14/2019	1345	13.9	6.25	248.9	2.54	-115.8	1059	598	600	gray	
2/15/2019	1020	10.4	6.13	218.5	3.81	-12.1	134.5	618	620		
2/15/2019	1230	no recovery						638	640		
2/15/2019	1430	9	7.14	187.4	7.75	33.7	132.5	678	680		
2/19/2019	1200	no recovery						698	700		no recovery, no hydropunch sample collected
2/19/2019	1445	4.6	6.4	105.0	3.8	114.4	303.1	708	710	clear	
2/20/2019	1145	3.6	5.84	83	3.25	-9.7	off scale	718	720	gray	
2/20/2019	1330	10.1	6.39	179.6	2.61	-634	762.5	738	740	very pale yellow	
2/21/2019	1115	10.7	6.5	100.4	4.62	-93.2	436.4	758	760		
2/21/2019	1320	11.9	6.68	309.4	3.49	-3.4	1032	778	780		
2/22/2019	1345	drilling mud						803	805		
2/23/2019	1150	7.6	6.98	109.6	3.07	-89		823	825		
2/23/2019	1315	7.3	6.92	86.6	7.11	-60.8		838	840		
2/21/2019	1510	7.5	6.89	124.5	5.27	-43.3		858	860		
2/26/2019	1300	9.7	9.48	464.5	6.33	88.6	94.84	888	890		
2/26/2019	1500	no recovery						898	900		no recovery, no hydropunch sample collected
2/27/2019	1045	8.6	6.39	230.5	1.51	-52.1	864.3	903	905		
2/27/2019	1325	drilling mud - not sampled						925	927		no recovery, no hydropunch sample collected
2/28/2019		no recovery						943	945		no recovery, no hydropunch sample collected

Section 4

VPB174 Analytical Data Validation

- Analytical Data Sheets
- Chain of Custody Records
- Validation Letter and Table

DATA VALIDATION REPORT

Project:	Regional Groundwater Investigation — NWIRP Bethpage
Laboratory:	Katahdin Analytical
Sample Delivery Group:	BETHPAGE VPB174
Analyses/Method:	Volatile Organic Compounds (VOCs) by U.S. EPA SW-846 Method 8260C and Total Organic Carbon (TOC) by U.S. EPA SW-846 Method 9060A
Validation Level:	Stage 3 Validation Electronic and Manual
Prepared by:	Dana Miller/Resolution Consultants Completed on: 04/20/2019

SUMMARY

This report summarizes data review findings for the vertical profile boring (VPB) 174 (samples listed below) collected by Resolution Consultants from the Regional Groundwater Investigation — Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage Site on 23 January to 27 February 2019 in accordance with the following Uniform Federal Policy (UFP) Sampling and Analysis Plans:

- *Sampling and Analysis Plan, Bethpage, New York.* (Resolution Consultants April 2013).
- *UFP SAP Addendum, Installation of Vertical Profile Borings and Monitoring Wells, Operable Unit 2, NWIRP Bethpage, New York.* (Resolution Consultants November 2013).
- *UFP SAP Addendum, Inclusion of Additional Target Analytes for Volatile Organics Analyses, NWIRP Bethpage OU2, Bethpage, New York*. (Resolution Consultants August 2014).

Sample Identification	Matrix/Sample Type	Analysis
VPB174-TB01-012319	Trip blank	8260C
VPB174-GW-012319-58-60	Groundwater	8260C
VPB174-GW-012419-98-100	Groundwater	8260C
VPB174-TB02-012919	Trip blank	8260C
VPB174-GW-012919-158-160	Groundwater	8260C
VPB174-GW-012919-198-200	Groundwater	8260C
VPB174-TB03-020419	Trip blank	8260C
VPB174-FD-020419	Field duplicate	8260C
VPB174-GW-020419-218-220	Groundwater	8260C
VPB174-GW-020419-238-240	Groundwater	8260C
VPB174-GW-020519-298-300	Groundwater	8260C

Sample Identification	Matrix/Sample Type	Analysis
VPB174-GW-020519-263-265	Groundwater	8260C
VPB174-GW-020519-278-280	Groundwater	8260C
VPB174-TB05-020719	Trip blank	8260C
VPB174-GW-020719-383-385	Groundwater	8260C
VPB174-GW-020719-398-400	Groundwater	8260C
VPB174-TB04-020619	Trip blank	8260C
VPB174-GW-020619-318-320	Groundwater	8260C
VPB174-EB-020619-318-320	Equipment blank	8260C
VPB174-GW-020619-338-340	Groundwater	8260C
VPB174-GW-020619-358-360	Groundwater	8260C
VPB174-TB06-020819	Trip blank	8260C
VPB174-GW-020819-418-420	Groundwater	8260C
VPB174-GW-020819-438-440	Groundwater	8260C
VPB174-GW-021119-458-460	Groundwater	8260C
VPB174-GW-021119-478-480	Groundwater	8260C
VPB174-TB07-021219	Trip blank	8260C
VPB174-GW-021219-498-500	Groundwater	8260C
VPB174-GW-021219-518-520	Groundwater	8260C
VPB174-GW-FD-021319	Field duplicate	8260C
VPB174-GW-021319-558-560	Groundwater	8260C
VPB174-GW-021319-538-540	Groundwater	8260C
VPB174-SOIL-FD-021219	Field duplicate	9060A
VPB174-SOIL-021219-503-505	Soil	9060A
VPB174-EB-021219-503-505	Equipment blank	9060A
VPB174-TB08-021419	Trip blank	8260C
VPB174-GW-021419-578-580	Groundwater	8260C
VPB174-GW-021419-598-600	Groundwater	8260C
VPB174-GW-021519-618-620	Groundwater	8260C
VPB174-GW-021519-638-640	Groundwater	8260C
VPB174-GW-021819-678-680	Groundwater	8260C
VPB174-TB-021519	Trip blank	8260C
VPB174-TB09-021919	Trip blank	8260C
VPB174-GW-021919-708-710	Groundwater	8260C
VPB174-FB-022019	Field blank	8260C
VPB174-GW-022019-718-720	Groundwater	8260C
VPB174-GW-022019-738-740	Groundwater	8260C
VPB174-TB-022119	Trip blank	8260C
VPB174-GW-022119-758-760	Groundwater	8260C

Sample Identification	Matrix/Sample Type	Analysis
VPB174-GW-022119-778-780	Groundwater	8260C
VPB174-GW-022219-803-805	Groundwater	8260C
VPB174-GW-022519-823-825	Groundwater	8260C
VPB174-GW-022519-838-840	Groundwater	8260C
VPB174-EB-022519	Equipment blank	8260C
VPB174-GW-022519-858-860	Groundwater	8260C
VPB174-TB-022619	Trip blank	8260C
VPB174-GW-022719-903-905	Groundwater	8260C
VPB174-GW-022619-888-890	Groundwater	8260C

Note:
SIM = Selective Ion Monitoring

Data validation activities were conducted using the following guidance documents: *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, specifically Method 8260C, Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry* (U.S. EPA 2006), Test *Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, specifically Method 9060A*, *National Functional Guidelines for Superfund Organic Methods Data Review* (U.S. EPA January 2017), *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (U.S. EPA January 2009), *Department of Defense (DoD) General Data Validation Guidelines (DoD February 2018), and DoD Quality Systems Manual for Environmental Laboratories*, Version 4.2 (DoD October 2010). In the absence of method-specific information, laboratory quality control (QC) limits, project-specific requirements, and/or professional judgment were used as appropriate.

REVIEW ELEMENTS

The data were evaluated based on the following parameters (where applicable to the method):

- ✓ Data completeness (chain-of-custody)/sample integrity
- ✓ Holding times and sample preservation
- ✓ Gas chromatography/Mass spectrometer performance checks
- ✗ Initial calibration /initial calibration verification /continuing calibration verification
- ✗ Laboratory blanks/field blanks/trip blanks
- ✗ Surrogate spike recovery
- ✓ Matrix spike and/or matrix spike duplicate result
- ✓ Laboratory control sample/laboratory control sample duplicate result

- ✓ Field duplicate
- ✓ Internal standard
- ✓ Sample results/reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. Acceptable data parameters for which all criteria were met, no qualification was performed, and/or non-conformance or other issues that were noted during validation but did not result in qualification of data are not discussed further. The symbol (X) indicates that a QC non-conformance resulted in the qualification of data. Any QC non-conformance that resulted in the qualification of data is discussed below.

RESULTS

Initial Calibration/Initial Calibration Verification/Continuing Calibration Verification

The ICAL is evaluated to ensure that the instrument was capable of producing acceptable qualitative and quantitative data prior to the analysis of samples. The ICV is evaluated to assess the accuracy of ICAL standards. The CCV is evaluated to determine whether the instrument was within acceptable calibration throughout the period in which the samples were analyzed. Failure of the CCV indicates that the ICAL is no longer valid and should trigger recalibration and reanalysis of the associated samples in the analytical sequence. The ICAL criteria were meet. Data qualification to the analytes associated with the specific ICV was as follows:

Initial Calibration Verification Recovery Non-Conformance:

Criteria	Actions	
	Detected Results	Non-Detected Results
Recovery >120%	J	UJ
Recovery < 80%	J	UJ

Notes:
J = Estimated value UJ = Undetected and estimated

Data qualification to the analytes associated with the specific CCV was as follows:

Continuing Calibration Verification Linearity Non-Conformance:

Criteria	Actions	
	Detected Results	Non-Detected Results
%Difference or %Drift > 20%	J	UJ

Notes:
J = Estimated value UJ = Undetected and estimated

Surrogate Spike Recovery

Surrogates provide information needed to assess the accuracy of analyses. Known amounts of surrogate compounds, which are not likely to be found in the actual samples, are added to each organic sample to check for accuracy. If surrogate percent recoveries (%Rs) are close to the known concentrations, the reported target compound concentrations are assumed to be accurate. Data qualification based on surrogate recovery was as follows:

Surrogate Spike Recovery Non-Conformance Chart:

Criteria	Action	
	Detected	Non-Detected
Lower Limit ≤ %R or RPD ≤ Upper Limit	No qualification	No qualification
% R > Upper Limit	J	No qualification
20% <%R < Lower Limit	J	UJ
% R < 20%	J	Rejected

Notes:

%R = Percent recovery
J = Estimated value
RPD = Relative percent difference
UJ = Undetected and estimated

Laboratory Blanks/Field Blanks/Trip Blanks

Laboratory blanks, field blanks, and trip blanks were analyzed with samples to assess contamination imparted by sample preparation and/or analysis. All results associated with a particular blank were evaluated to determine whether there was an inherent variability in the data, or if a problem was an isolated occurrence that did not affect the data. Samples were flagged in accordance with *Functional Guidelines* (shown below) where detections were not believed to be site-related.

Blank Non-Conformance Chart:

Blank type	Blank result	Sample result	Action
Method, Storage, Trip, Field, or Equipment	Detects	Not Detected	No Qualification
	≤ LOQ	< LOQ	Report sample at LOQ and qualify as non-detect (U)
		≥ LOQ or ≥ 2x Blank Result for Methylene chloride, Acetone, and 2-Butanone	Use professional judgement
	≥ LOQ	< LOQ	Report sample at LOQ and qualify as non-detect (U)
		≥ LOD but < Blank Result	Report at sample result and qualify as non-detect (U) or reject the sample result as unusable (R)
		≥ LOQ and ≥ Blank Result or 2x Blank Result for Methylene chloride, Acetone, and 2-Butanone	Use professional judgement

Blank type	Blank result	Sample result	Action
	Gross Contamination	Detect	Report at sample result and qualify as unusable (R)

Notes:
LOQ = Limit of quantitation
U = Undetected
R = Rejected

Qualifications Actions

The data were reviewed independently from the laboratory to assess data quality. All compounds detected at concentrations less than the limit of quantitation but greater than the method detection limit were qualified by the laboratory as estimated (J). This "J" qualifier was retained during data validation. Any sample that was analyzed at a dilution because of high concentrations of target or non-target analytes was checked to confirm that the results and/or sample-specific limit of quantitation and limit of detections were adjusted accordingly by the laboratory.

No results were rejected; therefore, analytical completeness was calculated to be 100 percent. Data not qualified during data review are considered usable by the project. The remaining results qualified as estimated may be high or low, but the data are usable for their intended purpose, according to U.S. EPA and Department of Defense guidelines. Final data review qualifiers used to describe results and how they should be interpreted by the end data user are provided in Attachment A and Attachment B. Attachment C provides results qualified during data review. Attachment D provides results after data review.

ATTACHMENTS

Attachment A: Qualifier Codes and Explanations
Attachment B: Reason Codes and Explanations
Attachment C: Results Qualified during Data Review
Attachment D: Final Results after Data Review

Attachment A
Qualifier Codes and Explanations

Qualifier	Definition
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

Attachment B
Reason Codes and Explanations

Explanation of Infraction	Reason Code
Chemical Preservation Infraction	P1
Temperature Infraction	T1
Holding Time Infraction, Sampling to Analysis	H1
Holding Time infraction, Sampling to Extraction	H2
Holding Time Infraction, Extraction to Analysis	H3
Performance Evaluation Sample/Tune Infraction	P2
Resolution Check Infraction	R1
Initial Calibration Frequency Infraction	I1
Initial Calibration- Insufficient Number of Standards	I2
Initial Calibration RRF Infraction	I3
Initial Calibration %RSD, r or r^2 Value Infraction	I4
ICV/CCV Frequency Infraction	C1
ICV/CCV RRF Infraction	C2
ICV/CCV Infraction with High Bias	C3
ICV/CCV Infraction with Low Bias	C4
ICB/CCB Frequency Infraction	B1
ICB/CCB Infraction (Qualified Detect)	B2
ICS Frequency Infraction	I5
ICS A Infraction (Qualified Detect)	I6
ICS AB Infraction with High Bias	I7
ICS AB Infraction with Low Bias	I8
Internal Standard Infraction with High Bias	I9
Internal Standard Infraction with Low Bias	I10
Internal Standard RT Infraction	I11
Required Sample Cleanup not Performed	R2
Method Blank Frequency Infraction	B3
Method Blank Infraction (Qualified Detect)	B4
LCS Frequency Infraction	L1
LCS percent recovery Infraction with High Bias	L2
LCS percent recovery Infraction with Low Bias	L3
LCS/LCSD Duplicate precision infraction	L4
MS/MSD Frequency Infraction	M1
MS/MSD percent recovery Infraction with High Bias	M2

Explanation of Infraction	Reason Code
MS/MSD percent recovery Infraction with Low Bias	M3
MS/MSD or Duplicate Precision Infraction	M4
Post Digestion Spike infraction	M5
Surrogate percent recovery Infraction with High Bias	S1
Surrogate percent recovery Infraction with Low Bias	S2
Serial Dilution Infraction	S3
Confirmation Analysis not Performed	C5
Confirmation Precision Infraction	C6
Sample RT or RRT Infraction	R3
Spectral Match Infraction	S4
Ion Mass Ratio Criteria Infraction	I12
Result Exceeds Calibration Range	R4
Storage Blank Infraction (Qualified Detect)	B5
Trip Blank Infraction (Qualified Detect)	B6
Field Blank Infraction (Qualified Detect)	B7
Equipment Blank Infraction (Qualified Detect)	B8
Field Duplicate Precision Infraction	D1
Reporting Limit Exceeds Action Level	R5
Professional Judgment (include references to support basis of decision)	P3

Attachment C
Results Qualified during Data Review

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1440	VPB174-EB-021219-503-505	SM1440-9	2/12/2019	TOTAL ORGANIC CARBON	1	MG_L	J	U	U	B4
SM1703	VPB174-FB-022019	SM1703-3	2/20/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-FB-022019	SM1703-3	2/20/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1167	VPB174-GW-020519-278-280	SM1167-7	2/5/2019	CARBON DISULFIDE	1	UG_L	J	U	U	B4
SM1167	VPB174-GW-020519-278-280	SM1167-7	2/5/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1167	VPB174-GW-020519-298-300	SM1167-5	2/5/2019	CARBON DISULFIDE	0.5	UG_L	J	U	U	B4
SM1167	VPB174-GW-020519-298-300	SM1167-5	2/5/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	ETHYLBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	STYRENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CIS-1,3-DICHLOROPROPENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	TRANS-1,3-DICHLOROPROPENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,4-DICHLOROBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2-DIBROMOETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2-DICHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	4-METHYL-2-PENTANONE	5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	M- AND P-XYLENE	2	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	METHYL CYCLOHEXANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	TOLUENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CHLOROBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CYCLOHEXANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2,4-TRICHLOROBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	DIBROMOCHLOROMETHANE	1	UG_L	U	J	UJ	P3
SM1533	VPB174-GW-021419-598-600	SM1533-3	2/14/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1533	VPB174-GW-021419-598-600	SM1533-3	2/14/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-618-620	SM1569-1	2/15/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-618-620	SM1569-1	2/15/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-618-620	SM1569-1	2/15/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022519-823-825	SM1791-5	2/25/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022519-838-840	SM1791-6	2/25/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022519-838-840	SM1791-6	2/25/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1167	VPB174-TB03-020419	SM1167-1	2/4/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-TB06-020819	SM1362-1	2/8/2019	ACETONE	2.5	UG_L	U	J	UJ	C3
SM1362	VPB174-TB06-020819	SM1362-1	2/8/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-TB06-020819	SM1362-1	2/8/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1362	VPB174-TB06-020819	SM1362-1	2/8/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1268	VPB174-TB04-020619	SM1268-1	2/6/2019	ACETONE	2.5	UG_L	U	J	UJ	C3
SM1267	VPB174-TB05-020719	SM1267-1	2/7/2019	ACETONE	2.5	UG_L	U	J	UJ	C3
SM1267	VPB174-TB05-020719	SM1267-1	2/7/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3
SM1267	VPB174-TB05-020719	SM1267-1	2/7/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1267	VPB174-TB05-020719	SM1267-1	2/7/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1167	VPB174-FD-020419	SM1167-2	2/4/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM0805	VPB174-GW-012319-58-60	SM0805-2RA	1/24/2019	ACETONE	11	UG_L		J+	J+	S1
SM0805	VPB174-GW-012319-58-60	SM0805-2RA	1/24/2019	CHLOROFORM	0.4	UG_L	J	J+	J+	S1
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	TETRACHLOROETHENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	XYLENES, TOTAL	3	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CIS-1,2-DICHLOROETHENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	TRANS-1,2-DICHLOROETHENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	METHYL TERT-BUTYL ETHER	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2-DICHLOROETHENE, TOTAL	2	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,3-DICHLOROBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CARBON TETRACHLORIDE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	2-HEXANONE	5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	ACETONE	9.2	UG_L	J	J	J+	C3,P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CHLOROFORM	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	BENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,1,1-TRICHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	BROMOMETHANE	2	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CHLOROMETHANE	2	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CHLOROETHANE	2	UG_L	U	J	UJ	C3,P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	VINYL CHLORIDE	2	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	METHYLENE CHLORIDE	5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	CARBON DISULFIDE	1	UG_L	U	J	UJ	C3,P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	BROMOFORM	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	BROMODICHLOROMETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,1-DICHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,1-DICHLOROETHENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	TRICHLOROFLUOROMETHANE	2	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	DICHLORODIFLUOROMETHANE	2	UG_L	U	J	UJ	C3,P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2-DICHLOROPROPANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	2-BUTANONE	5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,1,2-TRICHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	TRICHLOROETHENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	METHYL ACETATE	1.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,1,2,2-TETRACHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	O-XYLENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2-DICHLOROBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	1,2-DIBROMO-3-CHLOROPROPANE	1.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-418-420	SM1362-2DL	2/8/2019	ISOPROPYLBENZENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	ETHYLBENZENE	0.5	UG_L	U	J	UJ	P3

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	STYRENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CIS-1,3-DICHLOROPROPENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	TRANS-1,3-DICHLOROPROPENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,4-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2-DIBROMOETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2-DICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	M- AND P-XYLENE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	METHYL CYCLOHEXANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	TOLUENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CYCLOHEXANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2,4-TRICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	DIBROMOCHLOROMETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	TETRACHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	XYLENES, TOTAL	1.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CIS-1,2-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	TRANS-1,2-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2-DICHLOROETHENE, TOTAL	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,3-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CARBON TETRACHLORIDE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	ACETONE	3.7	UG_L	J	J	J+	C3,P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CHLOROFORM	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	BENZENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,1,1-TRICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	BROMOMETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CHLOROMETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3,P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	VINYL CHLORIDE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	METHYLENE CHLORIDE	2.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3,P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	BROMOFORM	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	BROMODICHLOROMETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,1-DICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,1-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3,P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.5	UG_L	U	J	UJ	P3

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Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2-DICHLOROPROPANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,1,2-TRICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	TRICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	METHYL ACETATE	0.75	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,1,2,2-TETRACHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	O-XYLENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	1,2-DIBROMO-3-CHLOROPROPANE	0.75	UG_L	U	J	UJ	P3
SM1362	VPB174-GW-020819-438-440	SM1362-3	2/8/2019	ISOPROPYLBENZENE	0.5	UG_L	U	J	UJ	P3
SM1569	VPB174-GW-021519-618-620	SM1569-1	2/15/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-618-620	SM1569-1	2/15/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-638-640	SM1569-2	2/15/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-638-640	SM1569-2	2/15/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-638-640	SM1569-2	2/15/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-638-640	SM1569-2	2/15/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021519-638-640	SM1569-2	2/15/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021819-678-680	SM1569-3	2/18/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021819-678-680	SM1569-3	2/18/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022519-858-860	SM1791-8	2/25/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022519-858-860	SM1791-8	2/25/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1985	VPB174-GW-022619-888-890	SM1985-3	2/26/2019	CHLOROMETHANE	1	UG_L	U	J	UJ	C3
SM1985	VPB174-GW-022619-888-890	SM1985-3	2/26/2019	VINYL CHLORIDE	1	UG_L	U	J	UJ	C3
SM1985	VPB174-GW-022619-888-890	SM1985-3	2/26/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1440	VPB174-TB07-021219	SM1440-1RA	2/12/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1440	VPB174-TB07-021219	SM1440-1RA	2/12/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1533	VPB174-TB08-021419	SM1533-1	2/14/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1533	VPB174-TB08-021419	SM1533-1	2/14/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM0805	VPB174-GW-012319-58-60	SM0805-2RA	1/24/2019	2-BUTANONE	1.9	UG_L	J	J+	J+	S1
SM0805	VPB174-GW-012419-98-100	SM0805-3RA	1/24/2019	ACETONE	12	UG_L		J+	J+	S1
SM0805	VPB174-GW-012419-98-100	SM0805-3RA	1/24/2019	CHLOROFORM	0.77	UG_L	J	J+	J+	S1
SM1362	VPB174-GW-021119-458-460	SM1362-4	2/11/2019	ACETONE	5.6	UG_L		J+	J+	C3
SM1362	VPB174-GW-021119-458-460	SM1362-4	2/11/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-GW-021119-458-460	SM1362-4	2/11/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1362	VPB174-GW-021119-458-460	SM1362-4	2/11/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-GW-021119-478-480	SM1362-5	2/11/2019	ACETONE	2.4	UG_L	J	J	J	C3
SM1362	VPB174-GW-021119-478-480	SM1362-5	2/11/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-GW-021119-478-480	SM1362-5	2/11/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021819-678-680	SM1569-3	2/18/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-GW-021819-678-680	SM1569-3	2/18/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3

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SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1569	VPB174-GW-021819-678-680	SM1569-3	2/18/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	C3
SM1703	VPB174-GW-021919-708-710	SM1703-2	2/19/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-GW-021919-708-710	SM1703-2	2/19/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	ETHYLBENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	STYRENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CIS-1,3-DICHLOROPROPENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	TRANS-1,3-DICHLOROPROPENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,4-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2-DIBROMOETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2-DICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	M- AND P-XYLENE	1	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	METHYL CYCLOHEXANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	TOLUENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CYCLOHEXANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2,4-TRICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	DIBROMOCHLOROMETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	TETRACHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	XYLENES, TOTAL	1.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CIS-1,2-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	TRANS-1,2-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2-DICHLOROETHENE, TOTAL	1	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,3-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CARBON TETRACHLORIDE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	ACETONE	3.6	UG_L	J	J	J	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CHLOROFORM	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	BENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,1,1-TRICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	BROMOMETHANE	1	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CHLOROMETHANE	1	UG_L	U	J	UJ	C3,P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	VINYL CHLORIDE	1	UG_L	U	J	UJ	C3,P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	METHYLENE CHLORIDE	2.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	BROMOFORM	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	BROMODICHLOROMETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,1-DICHLOROETHANE	0.5	UG_L	U	J	UJ	P3

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,1-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3,P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2-DICHLOROPROPANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,1,2-TRICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	TRICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	METHYL ACETATE	0.75	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,1,2,2-TETRACHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	O-XYLENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	1,2-DIBROMO-3-CHLOROPROPANE	0.75	UG_L	U	J	UJ	P3
SM1985	VPB174-GW-022719-903-905	SM1985-2	2/27/2019	ISOPROPYLBENZENE	0.5	UG_L	U	J	UJ	P3
SM1703	VPB174-TB09-021919	SM1703-1	2/19/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-TB09-021919	SM1703-1	2/19/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1268	VPB174-EB-020619-318-320	SM1268-3	2/6/2019	ACETONE	16	UG_L		J	J	C3
SM0982	VPB174-GW-012919-158-160	SM0982-2	1/29/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM0982	VPB174-GW-012919-198-200	SM0982-3	1/29/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1362	VPB174-GW-021119-478-480	SM1362-5	2/11/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021219-498-500	SM1440-2RA2	2/12/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021219-498-500	SM1440-2RA2	2/12/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021219-518-520	SM1440-3RA2	2/12/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-GW-022019-718-720	SM1703-4	2/20/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-GW-022019-718-720	SM1703-4	2/20/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-GW-022019-738-740	SM1703-5	2/20/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1703	VPB174-GW-022019-738-740	SM1703-5	2/20/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM0805	VPB174-TB01-012319	SM0805-1RA	1/23/2019	1,2-DICHLOROBENZENE	0.25	UG_L	J	J+	J+	S1
SM1268	VPB174-GW-020619-318-320	SM1268-2	2/6/2019	ACETONE	2.5	UG_L	J	UJ	UJ	B8,C3
SM1167	VPB174-GW-020419-218-220	SM1167-3	2/4/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1167	VPB174-GW-020419-238-240	SM1167-4	2/4/2019	CARBON DISULFIDE	1	UG_L	J	U	U	B4
SM1167	VPB174-GW-020419-238-240	SM1167-4	2/4/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021219-518-520	SM1440-3RA2	2/12/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	ETHYLBENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	STYRENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CIS-1,3-DICHLOROPROPENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	TRANS-1,3-DICHLOROPROPENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,4-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2-DIBROMOETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2-DICHLOROETHANE	0.5	UG_L	U	J	UJ	P3

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	M- AND P-XYLENE	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	METHYL CYCLOHEXANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	TOLUENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CYCLOHEXANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2,4-TRICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	DIBROMOCHLOROMETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	TETRACHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	XYLENES, TOTAL	1.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CIS-1,2-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	TRANS-1,2-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3,P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2-DICHLOROETHENE, TOTAL	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,3-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CARBON TETRACHLORIDE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	ACETONE	4	UG_L	J	J	J	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CHLOROFORM	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	BENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,1,1-TRICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	BROMOMETHANE	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CHLOROMETHANE	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CHLOROETHANE	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	VINYL CHLORIDE	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	METHYLENE CHLORIDE	2.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3,P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	BROMOFORM	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	BROMODICHLOROMETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,1-DICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,1-DICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3,P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2-DICHLOROPROPANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,1,2-TRICHLOROETHANE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	TRICHLOROETHENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	METHYL ACETATE	0.75	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,1,2,2-TETRACHLOROETHANE	0.5	UG_L	U	J	UJ	P3

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	O-XYLENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2-DICHLOROBENZENE	0.5	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	1,2-DIBROMO-3-CHLOROPROPANE	0.75	UG_L	U	J	UJ	P3
SM1440	VPB174-GW-021319-538-540	SM1440-6	2/13/2019	ISOPROPYLBENZENE	0.5	UG_L	U	J	UJ	P3
SM1791	VPB174-GW-022119-758-760	SM1791-2	2/21/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022119-758-760	SM1791-2	2/21/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022119-778-780	SM1791-3	2/21/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022119-778-780	SM1791-3	2/21/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM0982	VPB174-TB02-012919	SM0982-1	1/29/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1569	VPB174-TB-021519	SM1569-4	2/18/2019	4-METHYL-2-PENTANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-TB-021519	SM1569-4	2/18/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1569	VPB174-TB-021519	SM1569-4	2/18/2019	2-HEXANONE	2.5	UG_L	U	J	UJ	C3
SM1569	VPB174-TB-021519	SM1569-4	2/18/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1569	VPB174-TB-021519	SM1569-4	2/18/2019	2-BUTANONE	2.5	UG_L	U	J	UJ	C3
SM1268	VPB174-GW-020619-338-340	SM1268-4	2/6/2019	ACETONE	3.7	UG_L	J	J	J	C3
SM1268	VPB174-GW-020619-358-360	SM1268-5	2/6/2019	ACETONE	3.2	UG_L	J	J	J	C3
SM1167	VPB174-GW-020519-263-265	SM1167-6	2/5/2019	CARBON DISULFIDE	0.5	UG_L	J	U	U	B4
SM1167	VPB174-GW-020519-263-265	SM1167-6	2/5/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021319-558-560	SM1440-5	2/13/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021319-558-560	SM1440-5	2/13/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1440	VPB174-GW-021319-558-560	SM1440-5	2/13/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1533	VPB174-GW-021419-578-580	SM1533-2	2/14/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1533	VPB174-GW-021419-578-580	SM1533-2	2/14/2019	TRICHLOROFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022219-803-805	SM1791-4	2/22/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022219-803-805	SM1791-4	2/22/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-GW-022519-823-825	SM1791-5	2/25/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-TB-022119	SM1791-1	2/21/2019	METHYL TERT-BUTYL ETHER	0.5	UG_L	U	J	UJ	C3
SM1791	VPB174-TB-022119	SM1791-1	2/21/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1985	VPB174-TB-022619	SM1985-1	2/26/2019	CHLOROMETHANE	1	UG_L	U	J	UJ	C3
SM1985	VPB174-TB-022619	SM1985-1	2/26/2019	VINYL CHLORIDE	1	UG_L	U	J	UJ	C3
SM1985	VPB174-TB-022619	SM1985-1	2/26/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1267	VPB174-GW-020719-383-385	SM1267-2	2/7/2019	ACETONE	3.1	UG_L	J	J	J	C3
SM1267	VPB174-GW-020719-383-385	SM1267-2	2/7/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3
SM1267	VPB174-GW-020719-383-385	SM1267-2	2/7/2019	CARBON DISULFIDE	0.5	UG_L	U	J	UJ	C3
SM1267	VPB174-GW-020719-383-385	SM1267-2	2/7/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3
SM1267	VPB174-GW-020719-398-400	SM1267-3	2/7/2019	ACETONE	5.8	UG_L		J	J	C3
SM1267	VPB174-GW-020719-398-400	SM1267-3	2/7/2019	CHLOROETHANE	1	UG_L	U	J	UJ	C3
SM1267	VPB174-GW-020719-398-400	SM1267-3	2/7/2019	CARBON DISULFIDE	0.81	UG_L	J	J	J	C3
SM1267	VPB174-GW-020719-398-400	SM1267-3	2/7/2019	DICHLORODIFLUOROMETHANE	1	UG_L	U	J	UJ	C3

Attachment C
Results Qualified during Data Review

SDG	Sample ID	Lab Sample ID	Sample Date	Analyte	Result	Unit	Lab Qualifiers	Validator Qualifiers	Final Qualifiers	RC

Notes:

RC = Reason code

See Attachment A for qualifier definition.

See Attachment B for reason code definition.

Attachment D
Final Results after Data Review

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1440	SM1440	SM1440
			Lab ID	SM1440-7	SM1440-8	SM1440-9
			Sample ID	VPB174-SOIL-FD-021219	VPB174-SOIL-021219-503-505	VPB174-EB-021219-503-505
			Sample Date	2/12/2019	2/12/2019	2/12/2019
			Sample Type	Field duplicate	Soil	Equipment blank
Method	Analyte	CAS No	Units			
2540G	TOTAL SOLIDS	-29	PCT	85	87	NA
9060A	TOTAL ORGANIC CARBON	-28	UG_G	970	970	<1 U

Notes:

UG_G = Micrograms per gram
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM0805
			Lab ID	SM0805-2RA
			Sample ID	VPB174-GW-012319-58-60
			Sample Date	1/24/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	1.9 J+
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	11 J+
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	0.4 J+
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM0805
			Lab ID	SM0805-3RA
			Sample ID	VPB174-GW-012419-98-100
			Sample Date	1/24/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	12 J+
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	0.77 J+
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM0982
			Lab ID	SM0982-2
			Sample ID	VPB174-GW-012919-158-160
			Sample Date	1/29/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	5.3
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2.2
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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NWIRP Bethpage OU 2 Regional Groundwater Investigation

		Sample Delivery Group		SM0982
		Lab ID		SM0982-3
		Sample ID		VPB174-GW-012919-198-200
		Sample Date		1/29/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.9 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2.3
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1167
			Lab ID	SM1167-2
			Sample ID	VPB174-FD-020419
			Sample Date	2/4/2019
			Sample Type	Field duplicate
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.1 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	0.33 J
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	2.2
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	2.8
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1167
		Lab ID		SM1167-3
		Sample ID		VPB174-GW-020419-218-220
		Sample Date		2/4/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.9 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	0.36 J
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	2.1
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1167
		Lab ID		SM1167-4
		Sample ID		VPB174-GW-020419-238-240
		Sample Date		2/4/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.25 J
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.8 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<1 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	2.3
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
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		Sample Delivery Group		SM1167
		Lab ID		SM1167-5
		Sample ID		VPB174-GW-020519-298-300
		Sample Date		2/5/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	4 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1167
		Lab ID		SM1167-6
		Sample ID		VPB174-GW-020519-263-265
		Sample Date		2/5/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	4.5 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1167
		Lab ID		SM1167-7
		Sample ID		VPB174-GW-020519-278-280
		Sample Date		2/5/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.6 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<1 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

		Sample Delivery Group		SM1267
		Lab ID		SM1267-2
		Sample ID		VPB174-GW-020719-383-385
		Sample Date		2/7/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.1 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1267
			Lab ID	SM1267-3
			Sample ID	VPB174-GW-020719-398-400
			Sample Date	2/7/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	5.8 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.81 J
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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NWIRP Bethpage OU 2 Regional Groundwater Investigation

		Sample Delivery Group		SM1268
		Lab ID		SM1268-2
		Sample ID		VPB174-GW-020619-318-320
		Sample Date		2/6/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 UJ
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.68 J
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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NWIRP Bethpage OU 2 Regional Groundwater Investigation

		Sample Delivery Group		SM1268
		Lab ID		SM1268-4
		Sample ID		VPB174-GW-020619-338-340
		Sample Date		2/6/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.7 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1268
			Lab ID	SM1268-5
			Sample ID	VPB174-GW-020619-358-360
			Sample Date	2/6/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.2 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1362
			Lab ID	SM1362-2DL
			Sample ID	VPB174-GW-020819-418-420
			Sample Date	2/8/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<1 UJ
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<1 UJ
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<1 UJ
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<1 UJ
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<1 UJ
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<1 UJ
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<1 UJ
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<1.5 UJ
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<1 UJ
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<1 UJ
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<1 UJ
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<2 UJ
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<1 UJ
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<1 UJ
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<1 UJ
8260C	2-BUTANONE	78-93-3	UG_L	<5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<5 UJ
8260C	ACETONE	67-64-1	UG_L	9.2 J+
8260C	BENZENE	71-43-2	UG_L	<1 UJ
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<1 UJ
8260C	BROMOFORM	75-25-2	UG_L	<1 UJ
8260C	BROMOMETHANE	74-83-9	UG_L	<2 UJ
8260C	CARBON DISULFIDE	75-15-0	UG_L	<1 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<1 UJ
8260C	CHLOROBENZENE	108-90-7	UG_L	<1 UJ
8260C	CHLOROETHANE	75-00-3	UG_L	<2 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<1 UJ
8260C	CHLOROMETHANE	74-87-3	UG_L	<2 UJ
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<1 UJ
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<1 UJ
8260C	CYCLOHEXANE	110-82-7	UG_L	<1 UJ
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<1 UJ
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<2 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<1 UJ
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<1 UJ
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<2 UJ
8260C	METHYL ACETATE	79-20-9	UG_L	<1.5 UJ
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<1 UJ
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<1 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<5 UJ
8260C	O-XYLENE	95-47-6	UG_L	<1 UJ
8260C	STYRENE	100-42-5	UG_L	<1 UJ
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<1 UJ
8260C	TOLUENE	108-88-3	UG_L	<1 UJ
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<1 UJ
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<1 UJ
8260C	TRICHLOROETHENE	79-01-6	UG_L	<1 UJ
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<2 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<2 UJ
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<3 UJ

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1362
			Lab ID	SM1362-3
			Sample ID	VPB174-GW-020819-438-440
			Sample Date	2/8/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 UJ
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 UJ
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 UJ
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 UJ
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 UJ
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 UJ
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 UJ
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 UJ
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 UJ
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 UJ
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 UJ
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 UJ
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 UJ
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 UJ
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 UJ
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	3.7 J+
8260C	BENZENE	71-43-2	UG_L	<0.5 UJ
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 UJ
8260C	BROMOFORM	75-25-2	UG_L	<0.5 UJ
8260C	BROMOMETHANE	74-83-9	UG_L	<1 UJ
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 UJ
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 UJ
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 UJ
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 UJ
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 UJ
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 UJ
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 UJ
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 UJ
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 UJ
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 UJ
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 UJ
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 UJ
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 UJ
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 UJ
8260C	O-XYLENE	95-47-6	UG_L	<0.5 UJ
8260C	STYRENE	100-42-5	UG_L	<0.5 UJ
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 UJ
8260C	TOLUENE	108-88-3	UG_L	<0.5 UJ
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 UJ
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 UJ
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 UJ
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 UJ
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 UJ

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1362
			Lab ID	SM1362-4
			Sample ID	VPB174-GW-021119-458-460
			Sample Date	2/11/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	5.6 J+
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
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			Sample Delivery Group	SM1362
			Lab ID	SM1362-5
			Sample ID	VPB174-GW-021119-478-480
			Sample Date	2/11/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.4 J+
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	0.54 J
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1440
			Lab ID	SM1440-2RA2
			Sample ID	VPB174-GW-021219-498-500
			Sample Date	2/12/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.2 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

		Sample Delivery Group		SM1440
		Lab ID		SM1440-3RA2
		Sample ID		VPB174-GW-021219-518-520
		Sample Date		2/12/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1440
			Lab ID	SM1440-4
			Sample ID	VPB174-GW-FD-021319
			Sample Date	2/13/2019
			Sample Type	Field duplicate
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.46 J
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1440
		Lab ID		SM1440-5
		Sample ID		VPB174-GW-021319-558-560
		Sample Date		2/13/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.4 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1440
			Lab ID	SM1440-6
			Sample ID	VPB174-GW-021319-538-540
			Sample Date	2/13/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 UJ
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 UJ
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 UJ
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 UJ
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 UJ
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 UJ
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 UJ
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 UJ
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 UJ
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 UJ
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 UJ
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 UJ
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 UJ
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 UJ
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 UJ
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	4 J
8260C	BENZENE	71-43-2	UG_L	<0.5 UJ
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 UJ
8260C	BROMOFORM	75-25-2	UG_L	<0.5 UJ
8260C	BROMOMETHANE	74-83-9	UG_L	<1 UJ
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 UJ
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 UJ
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 UJ
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 UJ
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 UJ
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 UJ
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 UJ
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 UJ
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 UJ
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 UJ
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 UJ
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 UJ
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 UJ
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 UJ
8260C	O-XYLENE	95-47-6	UG_L	<0.5 UJ
8260C	STYRENE	100-42-5	UG_L	<0.5 UJ
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 UJ
8260C	TOLUENE	108-88-3	UG_L	<0.5 UJ
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 UJ
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 UJ
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 UJ
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 UJ
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 UJ

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1533
		Lab ID		SM1533-2
		Sample ID		VPB174-GW-021419-578-580
		Sample Date		2/14/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.9 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
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			Sample Delivery Group	SM1533
			Lab ID	SM1533-3
			Sample ID	VPB174-GW-021419-598-600
			Sample Date	2/14/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	3.1 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1569
		Lab ID		SM1569-1
		Sample ID		VPB174-GW-021519-618-620
		Sample Date		2/15/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	2.8 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1569
			Lab ID	SM1569-2
			Sample ID	VPB174-GW-021519-638-640
			Sample Date	2/15/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	7.5
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1569
		Lab ID		SM1569-3
		Sample ID		VPB174-GW-021819-678-680
		Sample Date		2/18/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1703
			Lab ID	SM1703-2
			Sample ID	VPB174-GW-021919-708-710
			Sample Date	2/19/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 UM
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1703
			Lab ID	SM1703-4
			Sample ID	VPB174-GW-022019-718-720
			Sample Date	2/20/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	4.5 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1703
			Lab ID	SM1703-5
			Sample ID	VPB174-GW-022019-738-740
			Sample Date	2/20/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	2.9 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1791
		Lab ID		SM1791-2
		Sample ID		VPB174-GW-022119-758-760
		Sample Date		2/21/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1791
		Lab ID		SM1791-3
		Sample ID		VPB174-GW-022119-778-780
		Sample Date		2/21/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
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			Sample Delivery Group	SM1791
			Lab ID	SM1791-4
			Sample ID	VPB174-GW-022219-803-805
			Sample Date	2/22/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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		Sample Delivery Group		SM1791
		Lab ID		SM1791-5
		Sample ID		VPB174-GW-022519-823-825
		Sample Date		2/25/2019
		Sample Type		Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1791
			Lab ID	SM1791-6
			Sample ID	VPB174-GW-022519-838-840
			Sample Date	2/25/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1791
			Lab ID	SM1791-8
			Sample ID	VPB174-GW-022519-858-860
			Sample Date	2/25/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
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			Sample Delivery Group	SM1985
			Lab ID	SM1985-2
			Sample ID	VPB174-GW-022719-903-905
			Sample Date	2/27/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 UJ
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 UJ
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 UJ
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 UJ
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 UJ
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 UJ
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 UJ
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 UJ
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 UJ
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 UJ
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 UJ
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 UJ
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 UJ
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 UJ
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 UJ
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	3.6 J
8260C	BENZENE	71-43-2	UG_L	<0.5 UJ
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 UJ
8260C	BROMOFORM	75-25-2	UG_L	<0.5 UJ
8260C	BROMOMETHANE	74-83-9	UG_L	<1 UJ
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 UJ
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 UJ
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 UJ
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 UJ
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 UJ
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 UJ
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 UJ
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 UJ
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 UJ
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 UJ
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 UJ
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 UJ
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 UJ
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 UJ
8260C	O-XYLENE	95-47-6	UG_L	<0.5 UJ
8260C	STYRENE	100-42-5	UG_L	<0.5 UJ
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 UJ
8260C	TOLUENE	108-88-3	UG_L	<0.5 UJ
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 UJ
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 UJ
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 UJ
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 UJ
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 UJ

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM1985
			Lab ID	SM1985-3
			Sample ID	VPB174-GW-022619-888-890
			Sample Date	2/26/2019
			Sample Type	Groundwater
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	4 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 UJ
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 UJ
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM0805
			Lab ID	SM0805-1RA
			Sample ID	VPB174-TB01-012319
			Sample Date	1/23/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.25 J+
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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			Sample Delivery Group	SM0982
			Lab ID	SM0982-1
			Sample ID	VPB174-TB02-012919
			Sample Date	1/29/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	2.3
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1167
			Lab ID	SM1167-1
			Sample ID	VPB174-TB03-020419
			Sample Date	2/4/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1267
			Lab ID	SM1267-1
			Sample ID	VPB174-TB05-020719
			Sample Date	2/7/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 UJ
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1268
			Lab ID	SM1268-1
			Sample ID	VPB174-TB04-020619
			Sample Date	2/6/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 UJ
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1268
			Lab ID	SM1268-3
			Sample ID	VPB174-EB-020619-318-320
			Sample Date	2/6/2019
			Sample Type	Equipment blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	2.4 J
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	16 J
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
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			Sample Delivery Group	SM1362
			Lab ID	SM1362-1
			Sample ID	VPB174-TB06-020819
			Sample Date	2/8/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 UJ
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 UJ
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1440
			Lab ID	SM1440-1RA
			Sample ID	VPB174-TB07-021219
			Sample Date	2/12/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1533
			Lab ID	SM1533-1
			Sample ID	VPB174-TB08-021419
			Sample Date	2/14/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1569
			Lab ID	SM1569-4
			Sample ID	VPB174-TB-021519
			Sample Date	2/18/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 UJ
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 UJ
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 UJ
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 UJ
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1703
			Lab ID	SM1703-1
			Sample ID	VPB174-TB09-021919
			Sample Date	2/19/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

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Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1703
			Lab ID	SM1703-3
			Sample ID	VPB174-FB-022019
			Sample Date	2/20/2019
			Sample Type	Field blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.51 J
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1791
			Lab ID	SM1791-1
			Sample ID	VPB174-TB-022119
			Sample Date	2/21/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 UJ
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 UJ
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1791
			Lab ID	SM1791-7
			Sample ID	VPB174-EB-022519
			Sample Date	2/25/2019
			Sample Type	Equipment blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	86
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 U
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 U
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 U
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

VPB 174
Final Results after Data Review
NWIRP Bethpage OU 2 Regional Groundwater Investigation

			Sample Delivery Group	SM1985
			Lab ID	SM1985-1
			Sample ID	VPB174-TB-022619
			Sample Date	2/26/2019
			Sample Type	Trip blank
Method	**Analyte**	**CAS No**	**Units**	
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	<0.5 U
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	<0.5 U
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	<0.5 U
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	<0.5 U
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	<0.5 U
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	<0.5 U
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	<0.5 U
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	<0.75 U
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	<0.5 U
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	<0.5 U
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	<0.5 U
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	<1 U
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	<0.5 U
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	<0.5 U
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	<0.5 U
8260C	2-BUTANONE	78-93-3	UG_L	<2.5 U
8260C	2-HEXANONE	591-78-6	UG_L	<2.5 U
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	<2.5 U
8260C	ACETONE	67-64-1	UG_L	<2.5 U
8260C	BENZENE	71-43-2	UG_L	<0.5 U
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	<0.5 U
8260C	BROMOFORM	75-25-2	UG_L	<0.5 U
8260C	BROMOMETHANE	74-83-9	UG_L	<1 U
8260C	CARBON DISULFIDE	75-15-0	UG_L	<0.5 U
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	<0.5 U
8260C	CHLOROBENZENE	108-90-7	UG_L	<0.5 U
8260C	CHLOROETHANE	75-00-3	UG_L	<1 U
8260C	CHLOROFORM	67-66-3	UG_L	<0.5 U
8260C	CHLOROMETHANE	74-87-3	UG_L	<1 UJ
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	<0.5 U
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	<0.5 U
8260C	CYCLOHEXANE	110-82-7	UG_L	<0.5 U
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	<0.5 U
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	<1 UJ
8260C	ETHYLBENZENE	100-41-4	UG_L	<0.5 U
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	<0.5 U
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	<1 U
8260C	METHYL ACETATE	79-20-9	UG_L	<0.75 U
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	<0.5 U
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	<0.5 U
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	<2.5 U
8260C	O-XYLENE	95-47-6	UG_L	<0.5 U
8260C	STYRENE	100-42-5	UG_L	<0.5 U
8260C	TETRACHLOROETHENE	127-18-4	UG_L	<0.5 U
8260C	TOLUENE	108-88-3	UG_L	<0.5 U
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	<0.5 U
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	<0.5 U
8260C	TRICHLOROETHENE	79-01-6	UG_L	<0.5 U
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	<1 U
8260C	VINYL CHLORIDE	75-01-4	UG_L	<1 UJ
8260C	XYLENES, TOTAL	1330-20-7	UG_L	<1.5 U

Notes:

UG_L = Micrograms per liter
NA = Not applicable
Qual = Final qualifiers (See Attachment A)

Section 5

VPB174 Analytical Data Table

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		1/24/2019	1/24/2019	1/29/2019	1/29/2019
Sample ID		VPB174-GW-012319-58-60	VPB174-GW-012419-98-100	VPB174-GW-012919-158-160	VPB174-GW-012919-198-200
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	**1.9 J+**	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	**11 J+**	**12 J+**	**5.3**	**3.9 J**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	7	**0.4 J+**	**0.77 J+**	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 U	<1 U	<1 UJ	<1 UJ
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 U	<0.5 U	**2.2**	**2.3**
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/4/2019	2/4/2019	2/4/2019	2/5/2019
Sample ID		VPB174-FD-020419	VPB174-GW-020419-218-220	VPB174-GW-020419-238-240	VPB174-GW-020519-263-265
Sample type code		FD	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	**0.25 J**	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	**3.1 J**	**2.9 J**	**3.8 J**	**4.5 J**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<0.5 U	<0.5 U	<1 U	<0.5 U
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	7	**0.33 J**	**0.36 J**	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 UJ	<1 UJ	<1 UJ	<1 UJ
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	**2**	**2**	**2**	<0.5 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	**2.2**	**2.1**	<0.5 U	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	**2.3**	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	**2.8**	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/5/2019	2/5/2019	2/6/2019	2/6/2019
Sample ID		VPB174-GW-020519-278-280	VPB174-GW-020519-298-300	VPB174-GW-020619-318-320	VPB174-GW-020619-338-340
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	**2.6 J**	**4 J**	<2.5 UJ	**3.7 J**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<1 U	<0.5 U	**0.68 J**	<0.5 U
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 UJ	<1 UJ	<1 U	<1 U
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/6/2019	2/7/2019	2/7/2019	2/8/2019
Sample ID		VPB174-GW-020619-358-360	VPB174-GW-020719-383-385	VPB174-GW-020719-398-400	VPB174-GW-020819-418-420
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<1.5 UJ***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<2 UJ
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<1 UJ
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<1 UJ
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<5 UJ
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<5 UJ
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<5 UJ
ACETONE	50	**3.2 J**	**3.1 J**	**5.8 J**	**9.2 J+**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<1 UJ
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<1 UJ
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<1 UJ
BROMOMETHANE	5	<1 U	<1 U	<1 U	<2 UJ
CARBON DISULFIDE	60	<0.5 U	<0.5 UJ	**0.81 J**	<1 UJ
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
CHLOROETHANE	5	<1 U	<1 UJ	<1 UJ	<2 UJ
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 U	<1 UJ
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<2 UJ
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<1 UJ***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<1 UJ
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
DICHLORODIFLUOROMETHANE	5	<1 U	<1 UJ	<1 UJ	<2 UJ
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<2 UJ
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<1.5 UJ
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<1 UJ
METHYL TERT-BUTYL ETHER	10	<0.5 U	<0.5 U	<0.5 U	<1 UJ
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<5 UJ
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<1 UJ
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<1 UJ***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<1 UJ
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 U	<2 UJ
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<2 UJ
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<3 UJ

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/8/2019	2/11/2019	2/11/2019	2/12/2019
Sample ID		VPB174-GW-020819-438-440	VPB174-GW-021119-458-460	VPB174-GW-021119-478-480	VPB174-GW-021219-498-500
Sample type code		FD	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 UJ***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 UJ	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	**3.7 J+**	**5.6 J+**	**2.4 J+**	**2.2 J**
BENZENE	1	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 UJ	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ
CARBON TETRACHLORIDE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 UJ	<1 UJ	<1 UJ	<1 U
CHLOROFORM	7	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 UJ	<1 U	**0.54 J**	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 UJ***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 UJ	<1 UJ	<1 UJ	<1 U
ETHYLBENZENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 UJ	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 UJ	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 UJ	<0.5 U	<0.5 U	<0.5 UJ
METHYLENE CHLORIDE	5	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
TOLUENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 UJ***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 UJ	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 UJ	<1 U	<1 U	<1 U
VINYL CHLORIDE	2	<1 UJ	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 UJ	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/12/2019	2/13/2019	2/13/2019	2/13/2019
Sample ID		VPB174-GW-021219-518-520	VPB174-GW-FD-021319	VPB174-GW-021319-538-540	VPB174-GW-021319-558-560
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 UJ***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 UJ	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 UJ	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 UJ	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 UJ	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	**4 J**	**2.4 J**
BENZENE	1	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 UJ	<1 U
CARBON DISULFIDE	60	<0.5 UJ	**0.46 J**	<0.5 UJ	<0.5 UJ
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 UJ	<1 U
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 UJ	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 UJ***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 U	<1 U	<1 UJ	<1 U
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 UJ	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 UJ	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 UJ	<0.5 U	<0.5 UJ	<0.5 UJ
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 UJ	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 UJ***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 UJ	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 UJ	<1 UJ
VINYL CHLORIDE	2	<1 U	<1 U	<1 UJ	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 UJ	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/14/2019	2/14/2019	2/15/2019	2/15/2019
Sample ID		VPB174-GW-021419-578-580	VPB174-GW-021419-598-600	VPB174-GW-021519-618-620	VPB174-GW-021519-638-640
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ
ACETONE	50	**2.9 J**	**3.1 J**	**2.8 J**	**7.5**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 UJ	<1 UJ	<1 UJ	<1 UJ
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/18/2019	2/19/2019	2/20/2019	2/20/2019
Sample ID		VPB174-GW-021819-678-680	VPB174-GW-021919-708-710	VPB174-GW-022019-718-720	VPB174-GW-022019-738-740
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 UM	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 UJ	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	**4.5 J**	**2.9 J**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<0.5 U	<0.5 UJ	<0.5 UJ	<0.5 UJ
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 UJ	<1 U	<1 U	<1 U
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/21/2019	2/21/2019	2/22/2019	2/25/2019
Sample ID		VPB174-GW-022119-758-760	VPB174-GW-022119-778-780	VPB174-GW-022219-803-805	VPB174-GW-022519-823-825
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 U***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 U
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 U
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 U
CARBON DISULFIDE	60	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 U
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CHLOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
DICHLORODIFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
METHYL TERT-BUTYL ETHER	10	<0.5 UJ	<0.5 UJ	<0.5 UJ	<0.5 UJ
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 U
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 U***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 U
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 U
VINYL CHLORIDE	2	<1 U	<1 U	<1 U	<1 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB174	VPB174	VPB174	VPB174
Sample Date		2/25/2019	2/25/2019	2/26/2019	2/27/2019
Sample ID		VPB174-GW-022519-838-840	VPB174-GW-022519-858-860	VPB174-GW-022619-888-890	VPB174-GW-022719-903-905
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,1,2,2-TETRACHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,1,2-TRICHLOROETHANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,1-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,1-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,2,4-TRICHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04	***<0.75 U***	***<0.75 U***	***<0.75 U***	***<0.75 UJ***
1,2-DIBROMOETHANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,2-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,2-DICHLOROETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,2-DICHLOROETHENE, TOTAL	5	<1 U	<1 U	<1 U	<1 UJ
1,2-DICHLOROPROPANE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,3-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
1,4-DICHLOROBENZENE	3	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ
ACETONE	50	<2.5 U	<2.5 U	**4 J**	**3.6 J**
BENZENE	1	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
BROMODICHLOROMETHANE	50	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
BROMOFORM	50	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
BROMOMETHANE	5	<1 U	<1 U	<1 U	<1 UJ
CARBON DISULFIDE	60	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 UJ
CARBON TETRACHLORIDE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
CHLOROBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
CHLOROETHANE	5	<1 U	<1 U	<1 U	<1 UJ
CHLOROFORM	7	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
CHLOROMETHANE	5	<1 U	<1 U	<1 UJ	<1 UJ
CIS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
CIS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 UJ***
CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
DIBROMOCHLOROMETHANE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
DICHLORODIFLUOROMETHANE	5	<1 U	<1 U	<1 UJ	<1 UJ
ETHYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
ISOPROPYLBENZENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
M- AND P-XYLENE	NL	<1 U	<1 U	<1 U	<1 UJ
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 UJ
METHYL CYCLOHEXANE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
METHYL TERT-BUTYL ETHER	10	<0.5 UJ	<0.5 UJ	<0.5 U	<0.5 UJ
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 UJ
O-XYLENE	NL	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
STYRENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
TETRACHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
TOLUENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
TRANS-1,2-DICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
TRANS-1,3-DICHLOROPROPENE	0.4	***<0.5 U***	***<0.5 U***	***<0.5 U***	***<0.5 UJ***
TRICHLOROETHENE	5	<0.5 U	<0.5 U	<0.5 U	<0.5 UJ
TRICHLOROFLUOROMETHANE	5	<1 U	<1 U	<1 U	<1 UJ
VINYL CHLORIDE	2	<1 U	<1 U	<1 UJ	<1 UJ
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 UJ

Notes:

1 New York State Department of Environmental Conservation Division of Water Technical and Operation Guidance series
(6 NYCRR 700-706, Part 703.5 summarized in TOGS 1.1.1)
Ambient water quality standards and groundwater effluent limitations, class GA; NL = Not Listed

Bold = Detected; ***Bold and Italics*** =Not detected exceeds NYS Groundwater Standards or guidance value
Yellow highlighted values exceed Groundwater Standards or guidance value

Sample type codes: N - normal environmental sample, FD - field duplicate

U = The analyte was not detected and was reported as less than the LOD. The LOD has been adjusted for any dilution or concentration of the sample.
J = The reported result was an estimated value with an unknown bias.
UJ = The analyte was not detected and was reported as less than the LOD however the assocaied numerical value is approximated.
J+ = The result was an estimated quantity, but the result may be biased high.

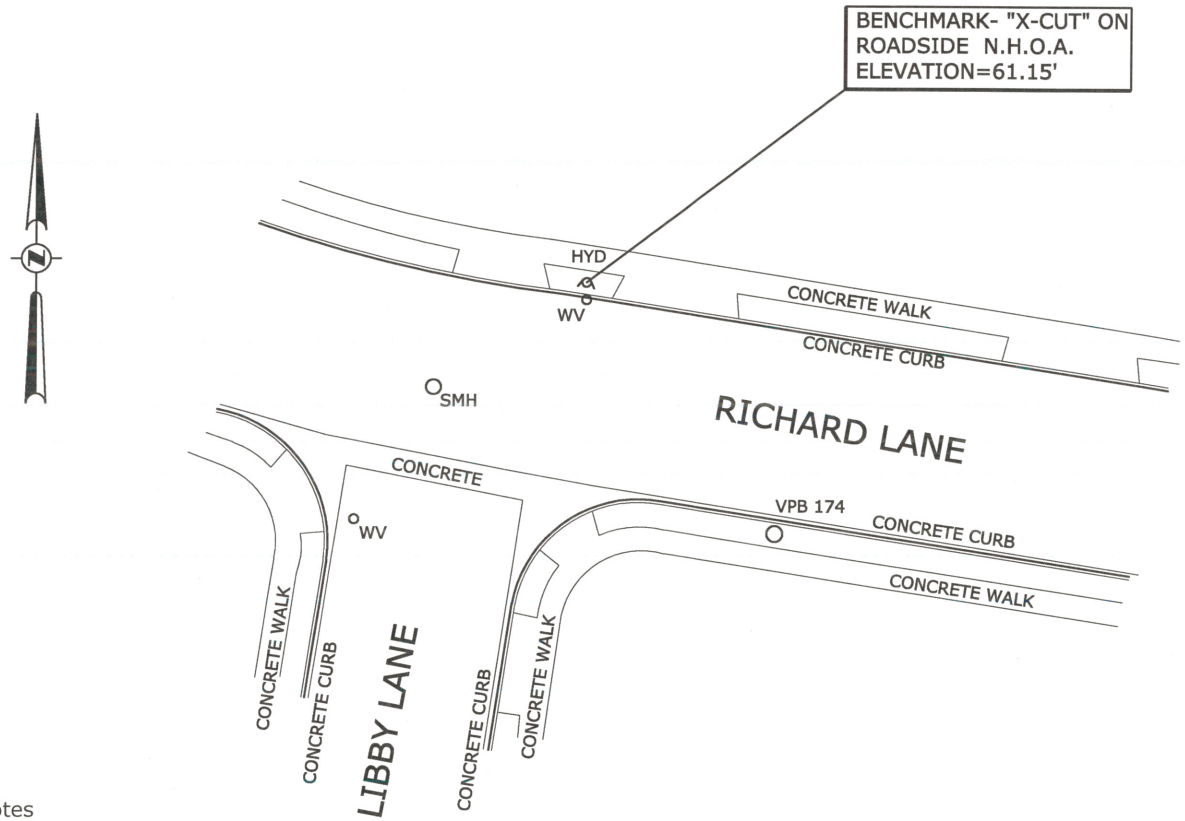
Section 6

VPB174 Survey

NONE :XREFS

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

Description	Northing	Easting	Latitude	Longitude	Ground	Top of Casing	Top of PVC
VPB174	199103.05	1122798.53	N40-42-43.50	W73-30-00.86	58.98'	58.98'	N/A



Map Notes

1. Information shown hereon was compiled from an actual field survey conducted on April 15, 2019.
2. North orientation is Grid North based on the New York State Plane Coordinate System, Long Island Zone, NAD 83 as obtained from GPS observations.
3. Vertical datum shown hereon is NAVD 88 as obtained from GPS observations.

Legend

HYD	HYDRANT
VPB 174	VERTICAL PROFILE BORING
SMH	SANITARY MANHOLE
WV	WATER VALVE

BAR SCALE

30 0 15 30 60

1 inch = 30 ft.

DWG NO. 19-283

Date	RECORD OF WORK	Appr.

STATE OF NEW YORK WILLIAM J. NETTLETON LICENSED LAND SURVEYOR 049513

Drafter: MDD	Checker: WJN
Appr. by: WJN	Proj. No. 14.4121

VERTICAL PROFILE BORING 174 SURVEY LOCATION
RICHARD LANE

TOWN OF LEVITTOWN | NASSAU COUNTY, NEW YORK

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture & Landscape Architecture, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

SCALE: 1"=30' | DATE:APRIL 15, 2019

CAD DWG. FILE NAME: K:\Projects\144121\Survey\Drawings and Maps\2019 DRAWINGS\2019 VPB 174 RICHARD LANE.dwg

Appendix B

Environmental Sequence Stratigraphy (ESS)

Analysis

RESOLUTION CONSULTANTS

To: Lora Fly and Brian Murray, DON, NAVFAC MIDLANT

From: Brian Caldwell, P.G., Resolution Consultants

Subject: Environmental Sequence Stratigraphy Analysis
Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage

Date: September 13, 2019

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1. INTRODUCTION

Previous sequence stratigraphic studies of the New Jersey Coastal Plain (Kulpecz et al., 2008; Miller et al., 1998; and Sugarman et al., 2005) have demonstrated that repetitive and predictable facies successions in the region can largely be explained by cyclic sea level changes. In this Environmental Sequence Stratigraphic (ESS) analysis, we combine results from regional studies (Lanci et al., 2002; Kulpecz et al., 2008; Miller et al., 1998, 1999, 2004, 2006; and Sugarman et al., 2005) with sub-regional continuous geophysical logs (acquired during environmental investigations at NWIRP) to develop a high resolution sequence stratigraphic framework for the Late Cretaceous Turonian age (approximately 94 million years ago) Magothy Formation underlying NWIRP Bethpage. ESS is a method of utilizing available data, coupled with an interpretation of the geologic facies, or depositional environments of the geologic material, to develop and refine Conceptual Site Models (CSM's). The refined CSM is then used in the environmental perspective to optimize contaminated site investigation and remediation. A glossary of terms used in the ESS evaluation is presented in Appendix A.

2. DATA AND METHODS

Geophysical logs have been used to interpret paleoenvironments and correlate depositional facies since Serra and Sulpice (1975) used spontaneous potential (SP) and resistivity logs to determine the depositional history of strata in the Gulf of Mexico. Gamma logs, a measure of naturally occurring radiation in aquifer material, have become a useful tool for log-based facies interpretation, particularly in siliclastic fluvio-deltaic environments coupled with lithologic control from cores. Fine-grained sediments, clays, glauconite sands, and phosphorites, which are common elements in siliciclastic fluvio-deltaic facies, retain relatively high levels of radiogenic elements. Therefore, relative gamma log counts can be considered a good indicator of lithology and, in the case of the Magothy, a discriminator between gravels, sands, silts, and clays.

Six detailed cross sections of the Magothy Formation were generated using 29 gamma logs: one north-south trending dip section (B-B') and five east-west trending strike sections (1-1', 2-2', 3-3', 4-4', and 5-5') (Figure 1). Gamma logs were selected for inclusion on the basis of geographic location (i.e., satisfying areas of poor coverage), depth (substantial penetration through the Magothy Formation), and adequate quality. Although this study relied heavily on gamma log data as a method of correlation, lithologic logs were also used to calibrate the correlation and account for sub-regional facies changes.

2.1 Stratigraphic Framework

Based on the gamma log signatures, the stratigraphic units beneath the Site were divided into two major packages of depositions (sequences). Each sequence is bounded by conspicuous subaerial erosion or exposure surfaces (i.e., sequence boundary - red markers in the cross sections) that are the product of relative sea level changes. Each sequence was further divided into "parasequences", or building-blocks of the sequences, marked by flooding surfaces (shale/clay signatures). They are denoted by gray markers in the depositional facies interpretations cross sections representing thin tidal mud deposits.

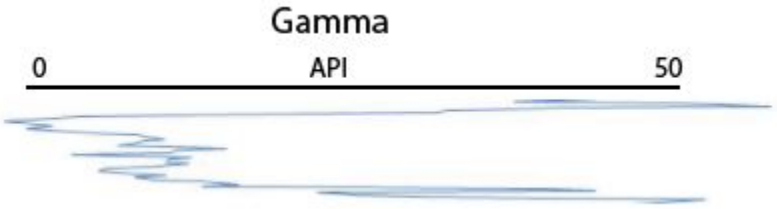
2.2 Facies Architecture

Parasequences were subdivided into marginal marine (delta front, wave-dominated shoreline, estuarine) and nonmarine (upper and lower delta plain/fluvial, glacial) depositional facies within the context of a wave-dominated deltaic depositional model (Sugarman et al., 2005). The individual depositional facies were identified on the basis of gamma log motifs and calibrated with modern

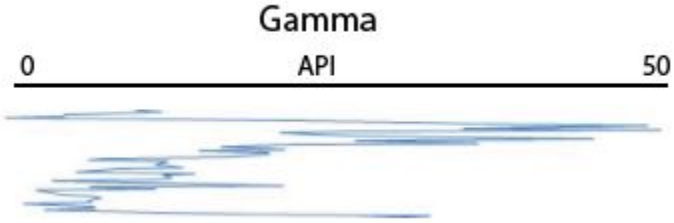
wave-dominated deltaic analogs derived from Google Earth imagery (Figure 2). The analogs allowed prediction of the dimensions (i.e., approximate width and depth) of depositional elements for the Site area, but also leverage horizontal facies relationships based on vertical facies successions in logs (applying Walther's Law - a vertical sequence of facies will be the product of a series of depositional environments which occurred laterally adjacent to each other).

The following is a brief description of the recognition criteria for identifying depositional facies at NWIRP Bethpage using gamma logs.

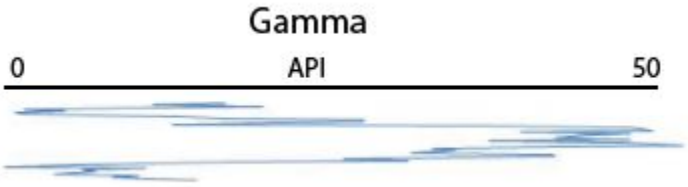
Delta Mouth Bars:
The gamma signature of a deltaic mouth bar is typically spiky and low, with sharp top and basal contacts. These deposits are very coarse.



Fluvial:
The gamma signature of a fluvial channel typically exhibits a sharp negative shift overlain by a gradual positive reflection (a "bell" shape) - indicative of a fining upward package.

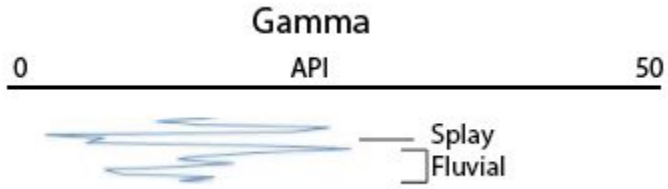


Overbank/Lagoonal:
The gamma signature of an overbank/Lagoonal deposit typically exhibits a high blocky reflection with a "cylindrical" shape. The top and basal contacts are sharp.



Splay:

The gamma signature of a splay deposit typically exhibits a sharp low reflection, however this spike tends to increase laterally. Splay deposits are most easily identified by their proximity to fluvial deposits.



3. RESULTS

Correlation of existing gamma logs beneath the Site reveals that the Magothy Formation consists of several phases of seaward progradation and landward retrogradation that are represented by two major depositional sequences (Figures 3 through 8). The culmination of the 2nd sequence is marked by a probable progradation of continental (glacial) deposits over coastal and deltaic deposits. The facies architecture of the Magothy Formation, resulting from these progradational and retrogradational patterns, provides important insights into the distribution of transmissive and storage zones at the Site over time. The sequences and facies of the Magothy Formation are described in more detail below.

3.1 Sequence 1

Sequence 1 separates the Magothy Formation from the underlying Raritan Formation by a Sequence Boundary (SB 1) which is represented by a basin-wide unconformity (manifested in the log signature as a distinctively low Gamma spike at approximately -800 feet [ft] above mean sea

level [amsl]). According to core studies and field investigations by Sugarman et al. (2005), mottled clays and paleosols (after) locally demarcate the SB 1, indicating local subaerial exposure during relative sea level fall. Elsewhere, the sequence boundary may be represented by fluvial incisions.

SB 1 is juxtaposed by a Transgressive Surface (TS 1, light blue marker), indicating a rapid drowning of the coastline caused by a significant sea level rise. As the sea level began to rise during the Transgressive Systems Tract (TST) (between the blue and green markers), distributary channels and low accommodation deltas of the lowstand were subject to reworking into a predominantly estuarine condition. Backstepping delta mouth bars and muddy fluvial channels are the predominant depositional facies of this interval (resulting in 50-75 ft thick muddy units). Sandy lignite deposits and pyrite concretions observed in cores suggest that these thick, muddy deposits are representative of such estuarine/lagoonal deposits (Sugarman et al., 2005). Channels of the TST also gradually become interspersed and poorly connected. As a result, this unit indicates a high variability of transmissive units interspersed by units of storage.

The TST is bounded on top by two Maximum Flooding Surfaces (green marker, MFS1 and purple marker, MFS2) that represent progressive maximum landward incursions of the shoreline in two phases. As the muddiest intervals of the system, these maximum flooding surfaces seem to act as storage for contamination and show conspicuous spikes of contamination data. MFS1 heralds the first phase of highstand, with aggradational to progradational successions. MFS2 represents the second maximum flooding before the complete turnaround to highstand delta progradation. This highstand phase shows a facies architecture predominated by seaward (southerly) dipping delta mouth bars, with distributary channels locally incising into them. The greater continuity of these sand bodies indicates a higher transmissivity of these units for groundwater flow, and hence contaminant transport.

3.2 Sequence 2

Sequence 2 is separated from Sequence 1 by an erosional unconformity (SB 2, red marker) overlying the highstand delta deposits of the previous sequence. In contrast to Sequence 1, the lowstand deposits are locally preserved (between red and light blue markers) as predominantly channelized units and their associated overbank sediment, with a minor component of southerly prograding mouth bars. A Transgressive Surface (TS 2, light blue marker) above the sequence boundary indicates the renewed initiation of a flooding event. The TST (between blue and green markers) is marked by laterally continuous, backstepping deltaic deposits and thick

lagoonal/estuarine deposits similar to the facies of TST in Sequence 1. However, the TST in this sequence shows a relatively thinner interval than in Sequence 1.

Sequence 2 represents a similar scenario as in Sequence 1 in relation to the culmination of the TST in two phases of maximum landward incursions of the shoreline (denoted by green marker, MFS1 and purple marker, MFS2). Observation of contamination data in relation to the maximum flooding surfaces show significant spikes as similarly observed in Sequence 1. The MFS1 is followed by the first phase of highstand aggradation and progradation of delta mouth bars, and the MFS2 is followed by a more pronounced turnaround to delta progradation. During the culmination of this highstand, a thick unit of continental deposits (possibly composed of coarse-grained glacial outwash) moves farther seaward, over-riding the highstand deltas and coastal deposits. While the grain size of these glacial deposits would be the coarsest, they may have poor transmissivity because of significant glacial mud in the matrices.

4. DISCUSSION

Because thermoflexural subsidence is the dominant tectonic component of evolution of passive margins (Watts and Steckler, 1979), the Turonian sequences and deltaic facies systems of the New Jersey and New York Coastal Plains primarily reflect the interplay of global sea level oscillations and sediment supply.

4.1 Sea Level Oscillations

Third order (1-10 million years) sea level changes (Figure 9) are well documented during the Turonian stage (Miller et al., 2005). Previous estimates from New Jersey Plain coreholes identified 4 sea level cycles in the Turonian with amplitudes as great as approximately 15 meters (Miller et al., 2005). These sea level changes primarily reflect a gradual sea level fall (Figure 9) and are the principal driver behind base-level changes, unconformities, and the development and preservation of the studied sequences on the New Jersey Coastal Plain.

Periods of elevated or low sea level have a distinct effect on shoreline position and the types of deltaic facies that are recorded on the coastal plain. During high sea level, marine to distal deltaic facies tend to form. In contrast, during periods of low relative sea level, marginal to nonmarine deltaic facies are deposited.

This analysis from the Turonian Magothy Formation indicates that although global sea level oscillations provide the template for sequences and sequence preservation, changes in sediment supply also largely influence depositional environments in the region.

4.2 Sediment Supply

Peak rates of Late Cretaceous sediment accumulation on the mid-Atlantic Margin occurred during the Albian stage (97 million years ago), representing a phase of tectonic uplift and intense weathering of the ancestral Appalachians (Poag and Sevon, 1989). This large influx of sediments is reflected by the rapid seaward progradation of the shoreline and preservation of extensive delta plain deposits (Magothy Formation) on the New Jersey Coastal Plain (Sugarman et al., 2005; Kulpecz et al., 2008). These observations are consistent with offshore data that shows large amounts of coarse, deltaic material deposited across the New Jersey and New York shelves, a function of high sediment rates "flooding" the system (Poag and Sevon, 1989).

Despite the rapid weathering rates and an overall sea level fall, the Late Turonian also exhibits a rapid sea level transgression upwards of approximately 50 million years (Figure 9) (Miller et al., 2005). During such events, sedimentation is no longer able to keep up with the pace of sea level rise, resulting in shoreline retrogradation, facies backstepping, and lagoonal deposits overlying progradational deltaic facies.

4.3 Stratigraphic Impact on Hydrogeology

This analysis indicates that considerable heterogeneity exists in the subsurface due to an interplay of progradation and transgression. The thick channelized sand bodies at the Site are inferred to represent high permeability units and conduits for groundwater flow/contaminant transport. However, the continuity of those units is variable. Furthermore, while fluvial channels are cut into the underlying deltaic deposits of each sequence, those incisions are not necessarily infilled by channel bars. Lack of space (accommodation) in the coastal realm during each sea level fall forces sediments to deposit farther seaward as delta front (mouth bar) deposits. Parts of the channelized incisions are later infilled by bay-fills and lagoonal mud during the ensuing transgression. As a result, mouth bars show more continuity than their channelized counterparts (and associated splay deposits), which are much more heterogeneous.

5. CONCLUSIONS

- The Turonian Magothy Formation primarily reflects the interplay of global sea level oscillations and sediment supply.
- Correlation of existing gamma logs beneath the Site indicates that the Magothy Formation consists of two high frequency, depositional sequences. Each sequence boundary is either marked by subaerial exposure (paleosol) or fluvial incision.
- Previous CSMs for the Site have interpreted the depositional setting of the Magothy Formation to have been a glacially-derived delta such as the Mackenzie River Delta. This analysis indicates a better analog for the Magothy Formation is the wave-dominated Sao Francisco River delta, Brazil (Figure 2). The Mackenzie River Delta is more appropriate for the overtopping glacial sediments.
- Each sequence with the Magothy shows considerable intra-parasequence heterogeneity. This heterogeneity needs to be addressed in detail in order to understand the pathway of the contamination of the plume. Groundwater preferentially flows through laterally continuous fluvial sands and distributary mouth bars. The distributary mouth bars show more continuity than their channelized counterparts. Mud-plugged channels and bay/lagoonal deposits constitute the lower transmissive units of the Magothy.
- Contamination appears to be primarily traveling through laterally continuous fluvial and mouth bar sands, however, in some locations, such as VPB160 and VPB142 on section B-B', major stratigraphic markers, (such as the maximum flooding surface in Sequence 1) appear to exhibit stratigraphic control on trichloroethene (TCE) and tetrachloroethene (PCE) concentrations.
- The Magothy Formation is topped by 200 to 300 feet of glacially-derived sediment, which in this analysis is considerably thicker than previous interpretations.
- The maximum flooding surfaces identified in this interpretation are strongly related to contamination data peaks. This may be explained by the fact that the maximum flooding surfaces are the muddiest intervals of the Site, rendering them potentially as storage units of contamination (adsorption by fine-grained aquifer material). Moreover, since the overlying deltaic sands lap against these surfaces, over time, groundwater contamination flowing through those continuous sands could end up in storage within the maximum flooding surfaces. Conversely, desorption of contamination from the maximum flooding surface material

could result in higher contamination migration rates in the deltaic sands if the concentration gradient is conducive for transfer (desorption).

Sequence stratigraphy and facies models provide a predictive framework for hydrostratigraphic units, but regional and local differences in sediment supply, depositional environment, and sea level affect the development of the hydrogeologic framework. Sequence stratigraphy allows packages of coarser sediments to be bracketed in a predictable manner by confining units. Facies analysis, coupled with depositional models, allows for the prediction of the potential scale and connectivity of coarser aquifer material. Sequence stratigraphy and facies analysis provides a means of roughly predicting permeability, porosity, and conductivity from aquifers, though exact estimates can only be achieved through hydraulic testing. However, understanding the sequence stratigraphy and depositional facies are critical for understanding scale and connectivity of aquifers and their confining units and predicting their local distributions.

6. REFERENCES

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FIGURE LIST

ATTACHMENT LIST

FIGURES

Figure 1. Map of ESS Cross Sections

2018 ESS Cross Sections

North-South

East-West

N

PWD-7438

BWD-9591

Legend

- Monitoring Well
- Vertical Profile Boring
- Vertical Profile Boring - Proposed
- Water Supply Well
- Extraction Well
- Extraction Well - Proposed

0 750 1,500 3,000 Feet

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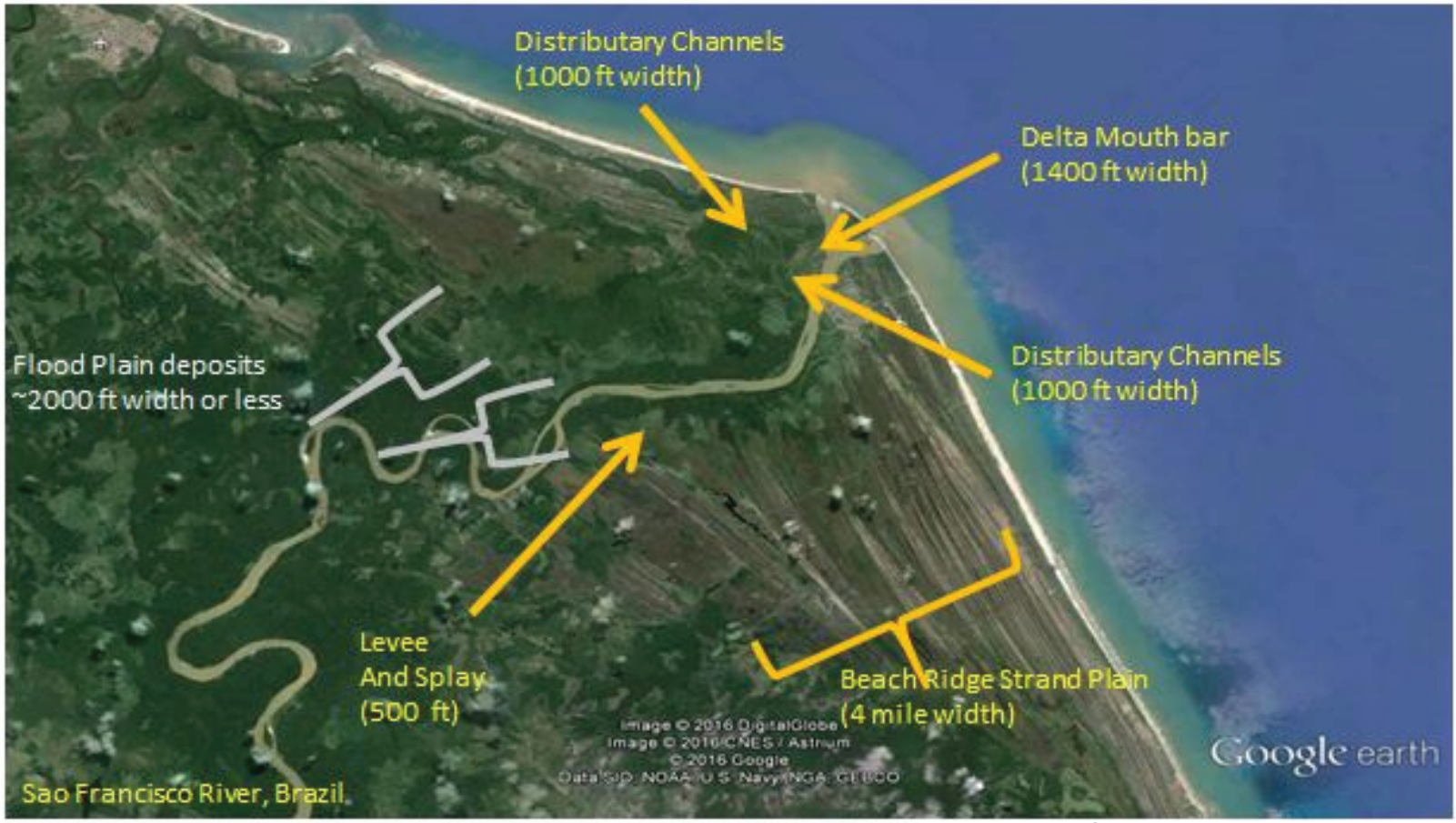


Figure 2a. Modern Analog

Source: Image ©2016 DigitalGlobe; Image ©2016 CNES/ Astrium; ©2016 Google Data SIO, NOAA, U.S. Navy, NGA, GEBCO

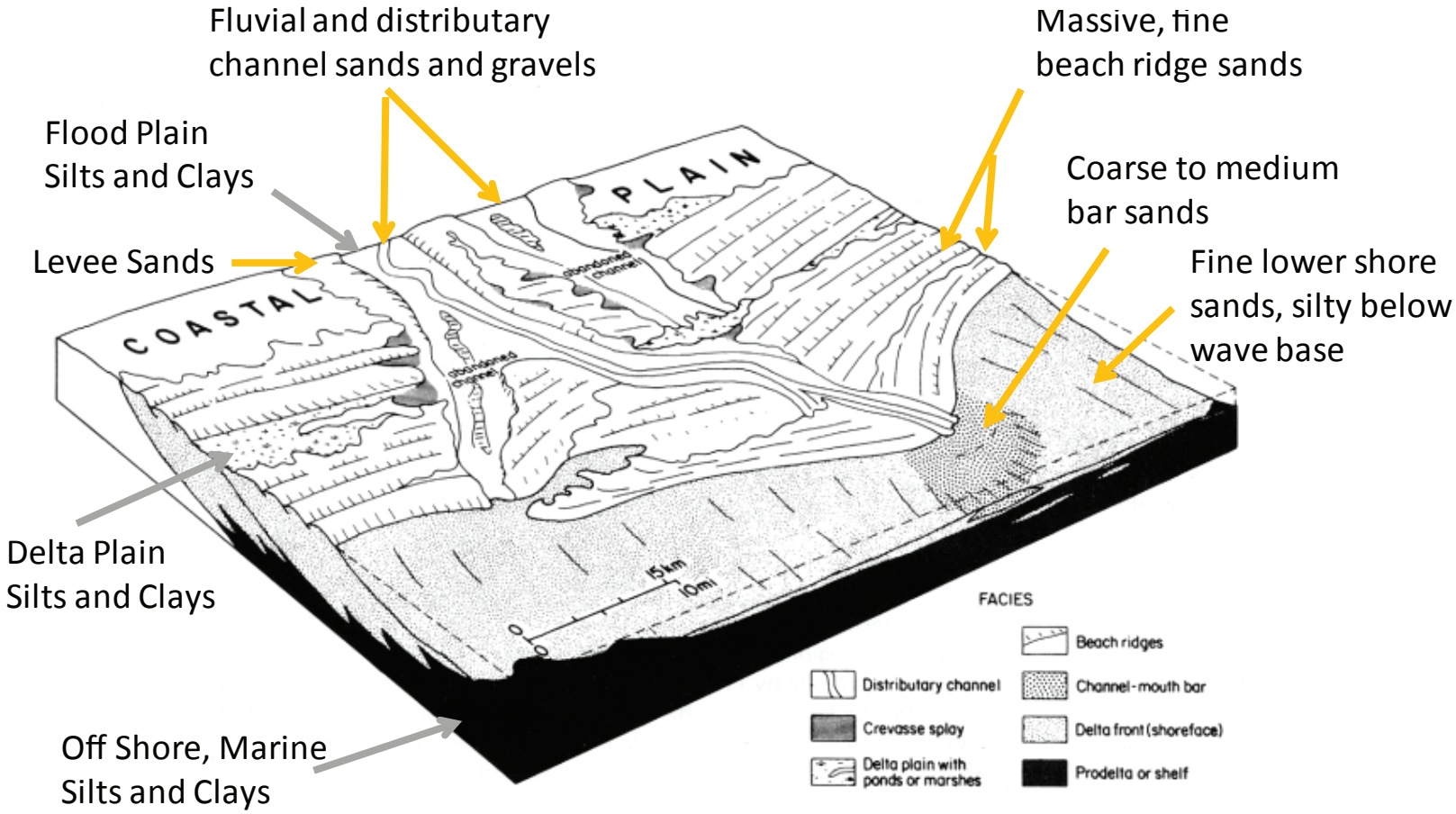


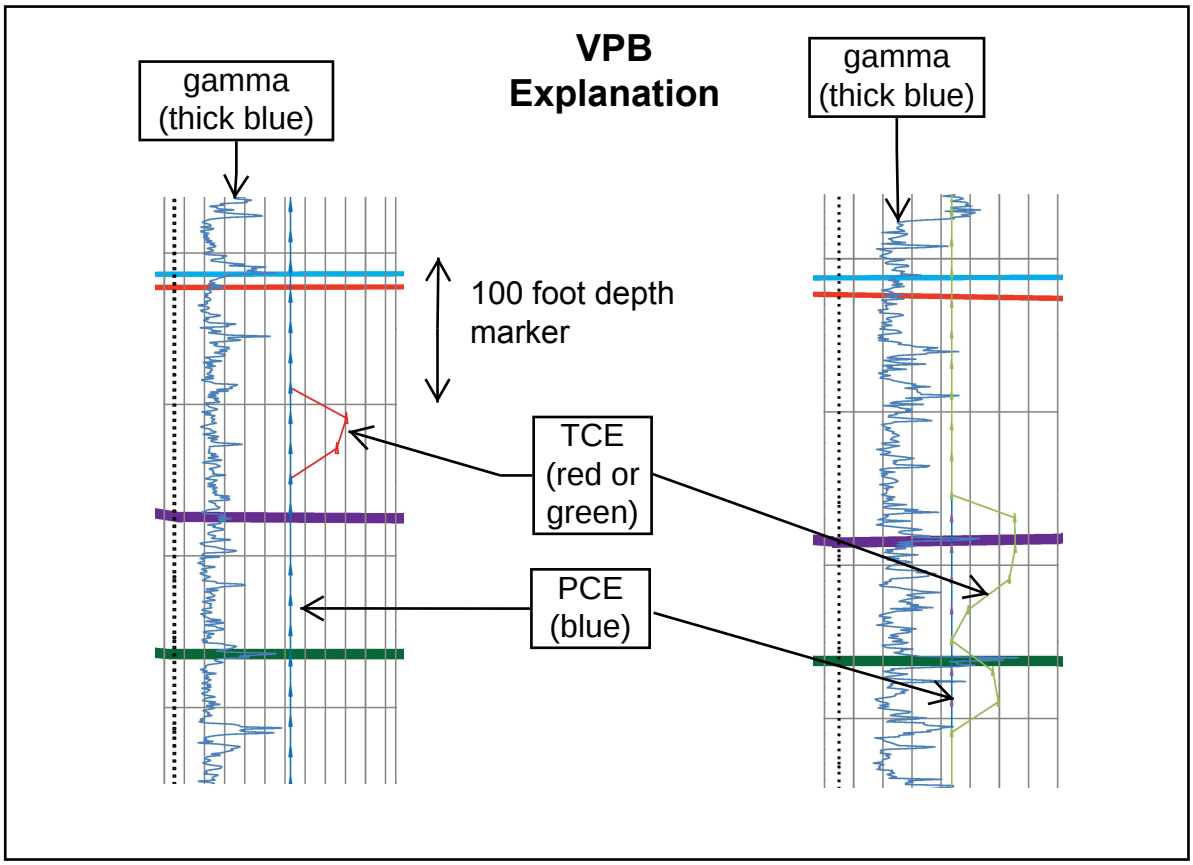
Figure 2b. Three-Dimensional Model of Wave-Dominated Delta System (source Weise, 1980)

Notes for Figures 3 through 8:

1. Approximate cross section dimensions:

Figure 3a & 3b (Section B-B') length is 19,690 feet, sequence 1+2 thickness is 1,000 feet.
Figure 4a & 4b (Section 1-1') length is 2,810 feet, sequence 1+2 thickness is 980 feet.
Figure 5a & 5b (Section 2-2') length is 6,340 feet, sequence 1+2 thickness is 970 feet.
Figure 6a & 6b (Section 3-3') length is 6,660 feet, sequence 1+2 thickness is 950 feet.
Figure 7a & 7b (Section 4-4') length is 9,280 feet, sequence 1+2 thickness is 930 feet.
Figure 8a & 8b (Section 5-5') length is 7,330 feet, sequence 1+2 thickness is 915 feet.

2. Vertical Profile Borings (VPBs) depicted along cross sections are explained below.



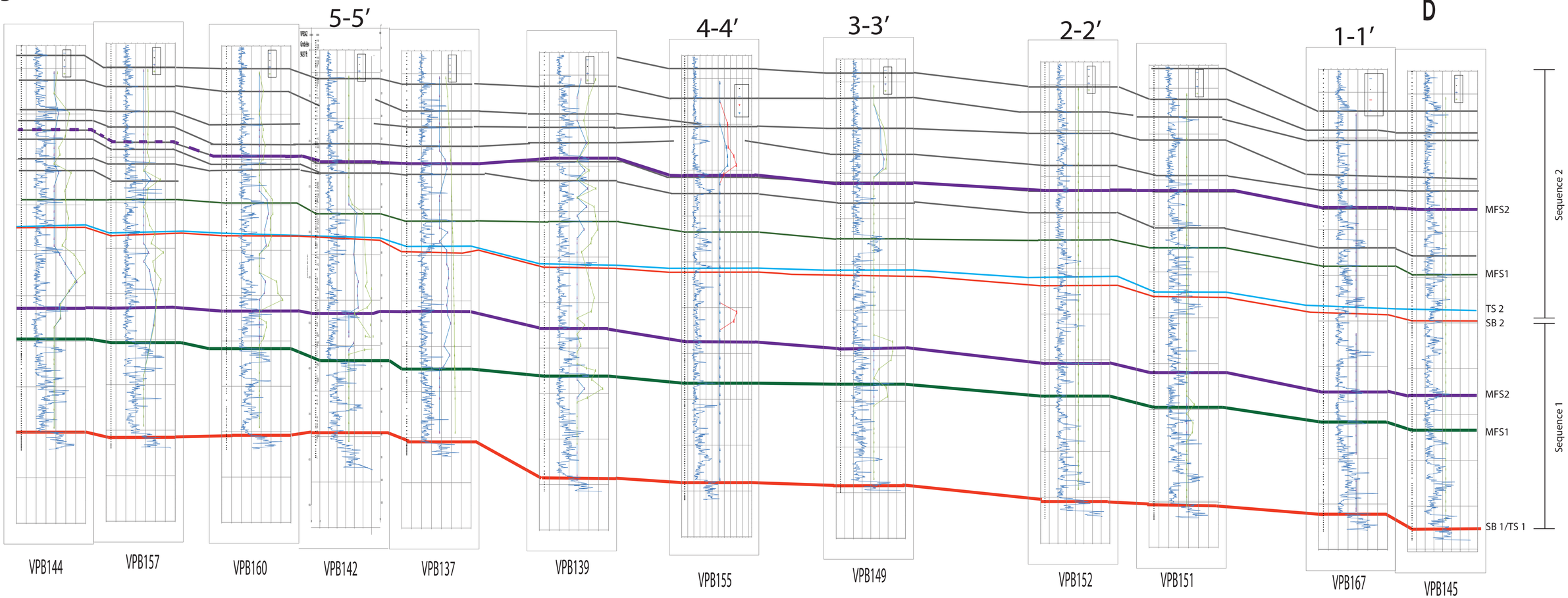
North

B

Figure 3a. Cross Section B-B' Showing Stratigraphic Framework

South

B′



Deltaic (Transgressive Systems Tract)

Deltaic (Highstand Systems Tract)

Channel Bar

Glacial

Splay/Overbank fines

Swamp and Tidal mud

Sequence Boundary

Maximum Flooding Surface 1

Maximum Flooding Surface 2

Transgressive Surface

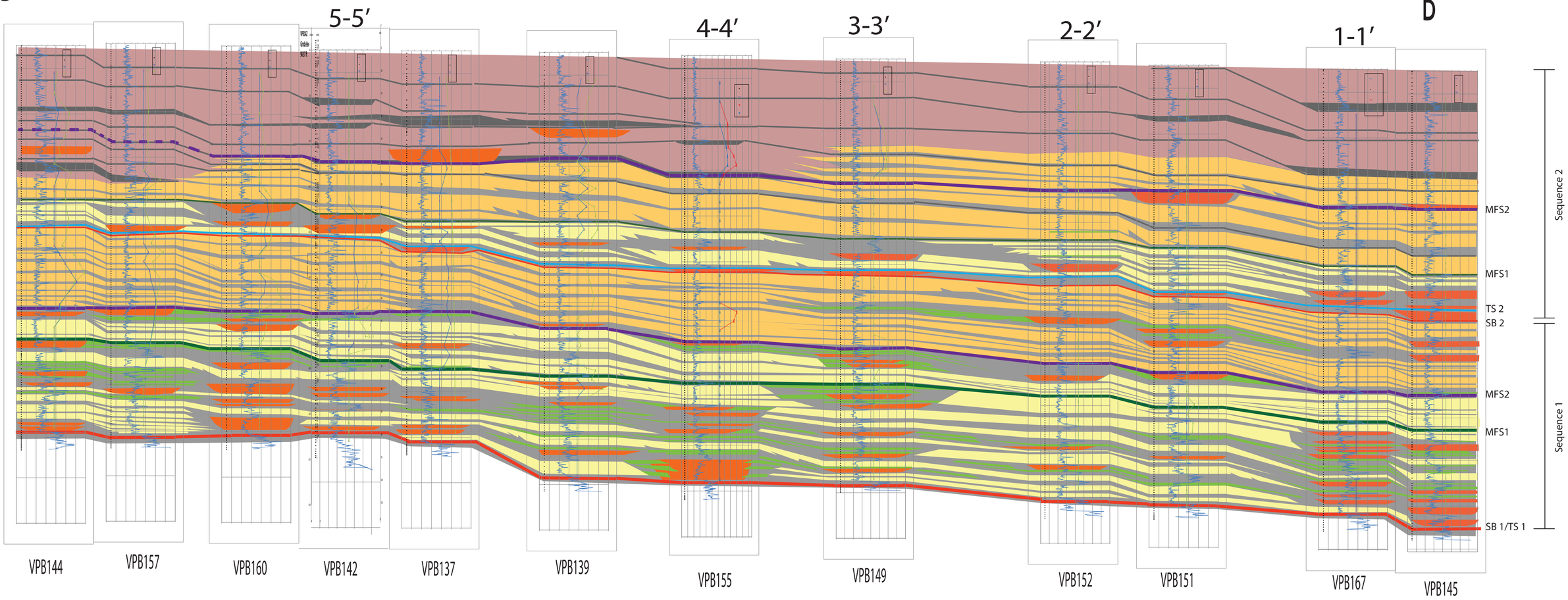
North

B

Figure 3b. Cross Section B-B' Showing Depositional Facies Interpretation

South

B′



- Deltaic (Transgressive Systems Tract)
- Deltaic (Highstand Systems Tract)
- Channel Bar
- Glacial
- Splay/Overbank fines
- Swamp and Tidal mud
- Sequence Boundary
- Maximum Flooding Surface 1
- Maximum Flooding Surface 2
- Transgressive Surface

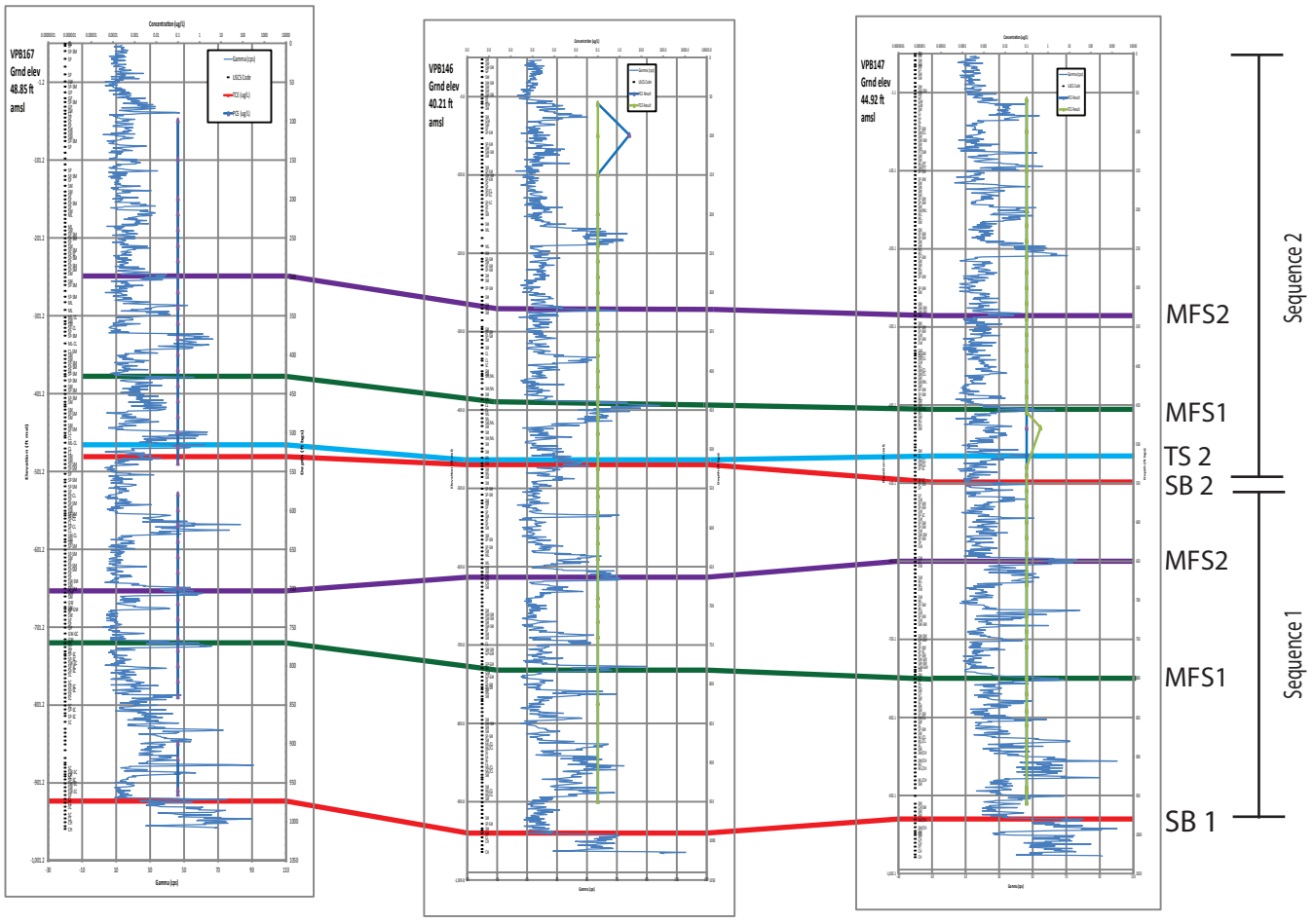
Figure 4a. Cross Section 1-1' Showing Stratigraphic Framework

West

1

East

1’



VPB167 VPB146 VPB147

Deltaic (Transgressive Systems Tract)

Deltaic (Highstand Systems Tract)

Channel Bar

Glacial

Splay/Overbank fines

Swamp and Tidal mud

Sequence Boundary

Maximum Flooding Surface 1

Maximum Flooding Surface 2

Transgressive Surface

Figure 4b. Cross Section 1-1′ Showing Depositional Facies Interpretation

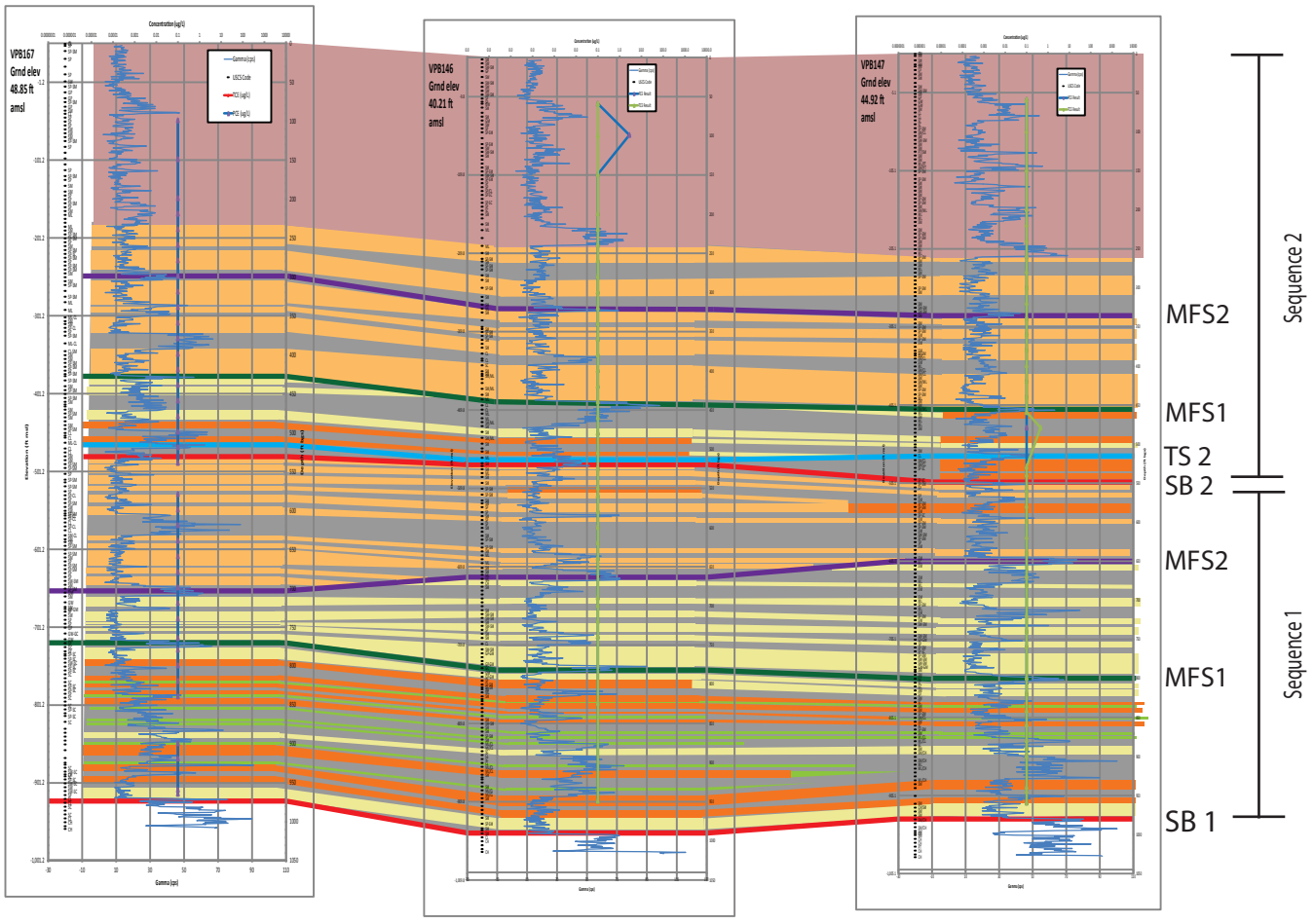
West

1

East

1′

B-B′



VPB167 VPB146 VPB147

Deltaic (Transgressive Systems Tract)

Deltaic (Highstand Systems Tract)

Channel Bar

Glacial

Splay/Overbank fines

Swamp and Tidal mud

Sequence Boundary

Maximum Flooding Surface 1

Maximum Flooding Surface 2

Transgressive Surface

Figure 5a. Cross Section 2-2' Showing Stratigraphic Framework

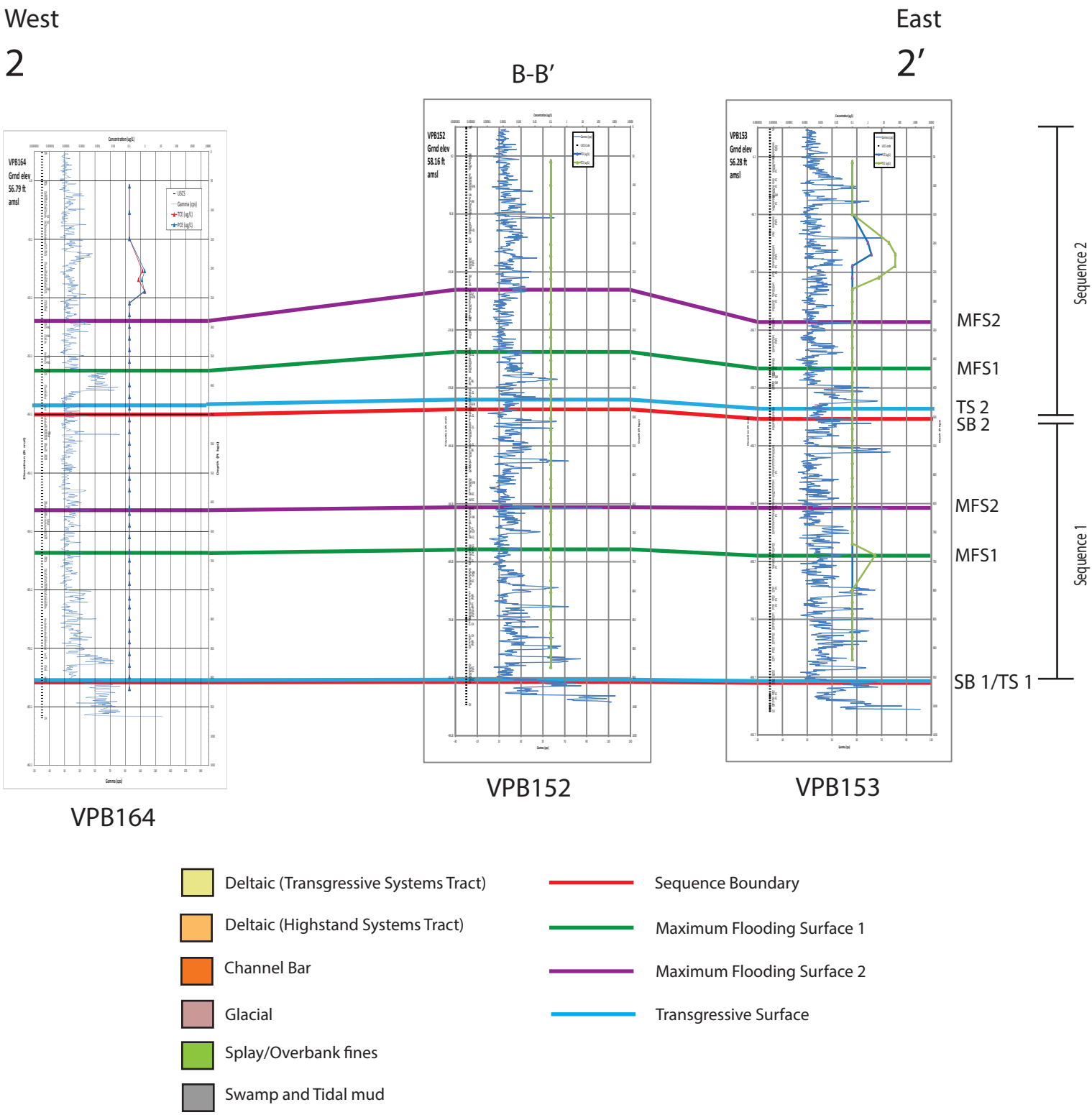


Figure 5b. Cross Section 2-2′ Showing Depositional Facies Interpretation

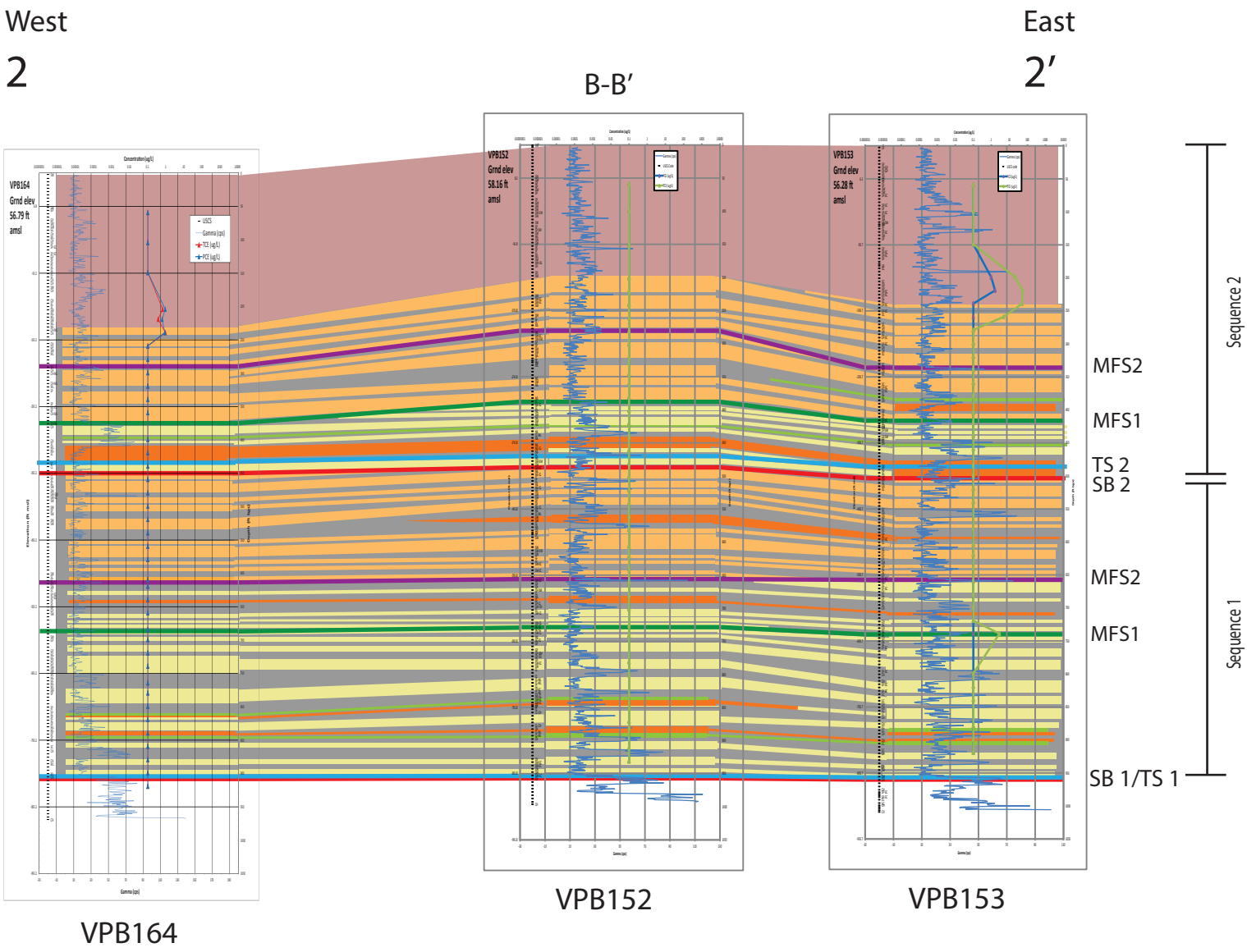


Figure 6a. Cross Section 3-3' Showing Stratigraphic Framework

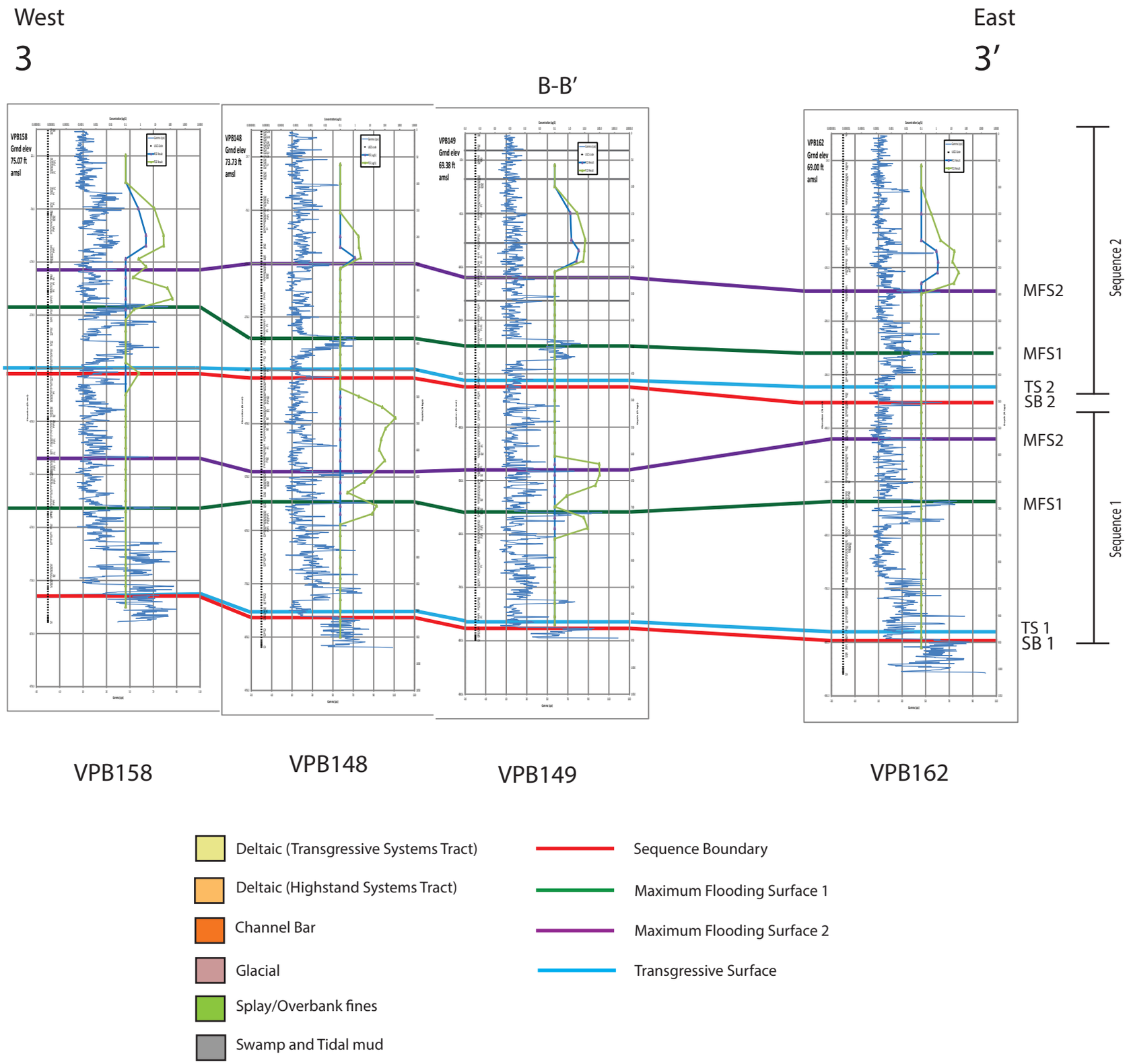


Figure 6b. Cross Section 3-3′ Showing Depositional Facies Interpretation

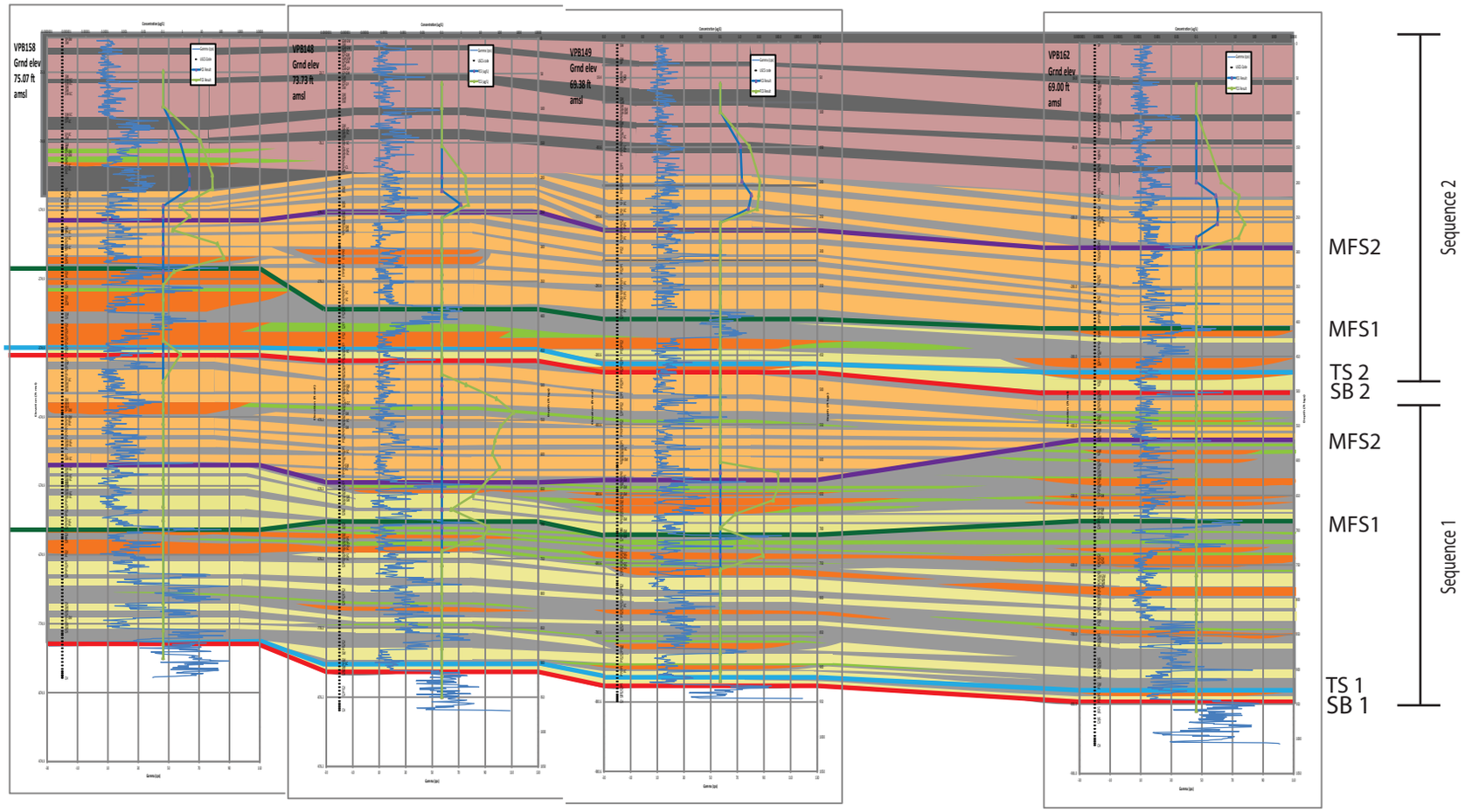
West

3

East

3′

B-B′



VPB158 VPB148 VPB149 VPB162

Deltaic (Transgressive Systems Tract)

Deltaic (Highstand Systems Tract)

Channel Bar

Glacial

Splay/Overbank fines

Swamp and Tidal mud

Sequence Boundary

Maximum Flooding Surface 1

Maximum Flooding Surface 2

Transgressive Surface

Figure 7a. Cross Section 4-4' Showing Stratigraphic Framework

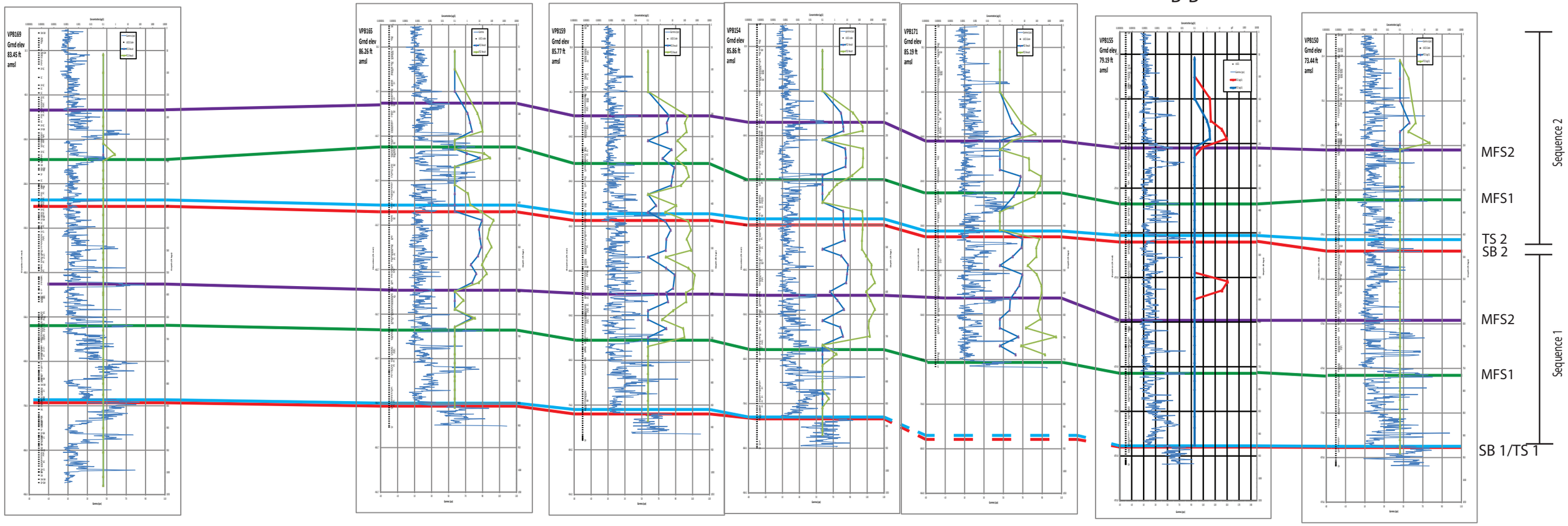
West

4

East

4′

B-B′



VPB169 VPB165 VPB159 VPB154 VPB171 VPB155 VPB150

- Deltaic (Transgressive Systems Tract)
- Deltaic (Highstand Systems Tract)
- Channel Bar
- Glacial
- Splay/Overbank fines
- Swamp and Tidal mud

- Sequence Boundary
- Maximum Flooding Surface 1
- Maximum Flooding Surface 2
- Transgressive Surface

Figure 7b. Cross Section 4-4′ Showing Depositional Facies Interpretation

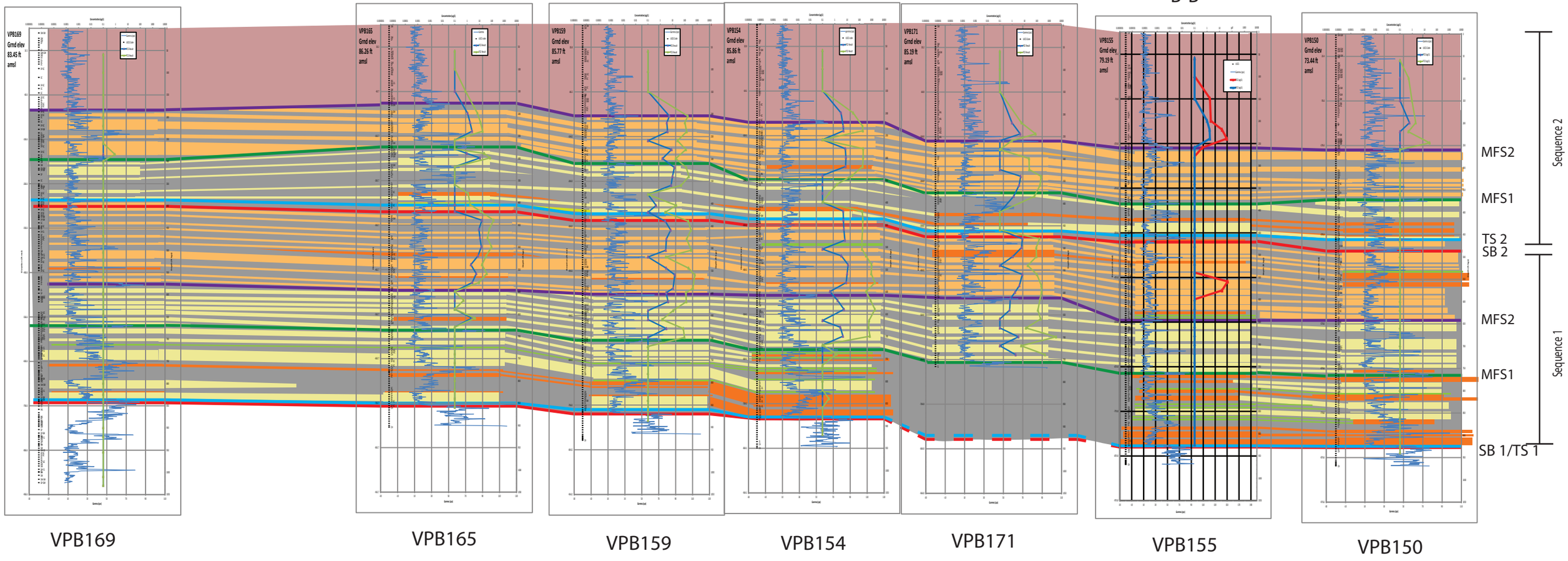
West

4

East

4′

B-B′



VPB169 VPB165 VPB159 VPB154 VPB171 VPB155 VPB150

- Deltaic (Transgressive Systems Tract)
- Deltaic (Highstand Systems Tract)
- Channel Bar
- Glacial
- Splay/Overbank fines
- Swamp and Tidal mud

- Sequence Boundary
- Maximum Flooding Surface 1
- Maximum Flooding Surface 2
- Transgressive Surface

Figure 8a. Cross Section 5-5' Showing Stratigraphic Framework

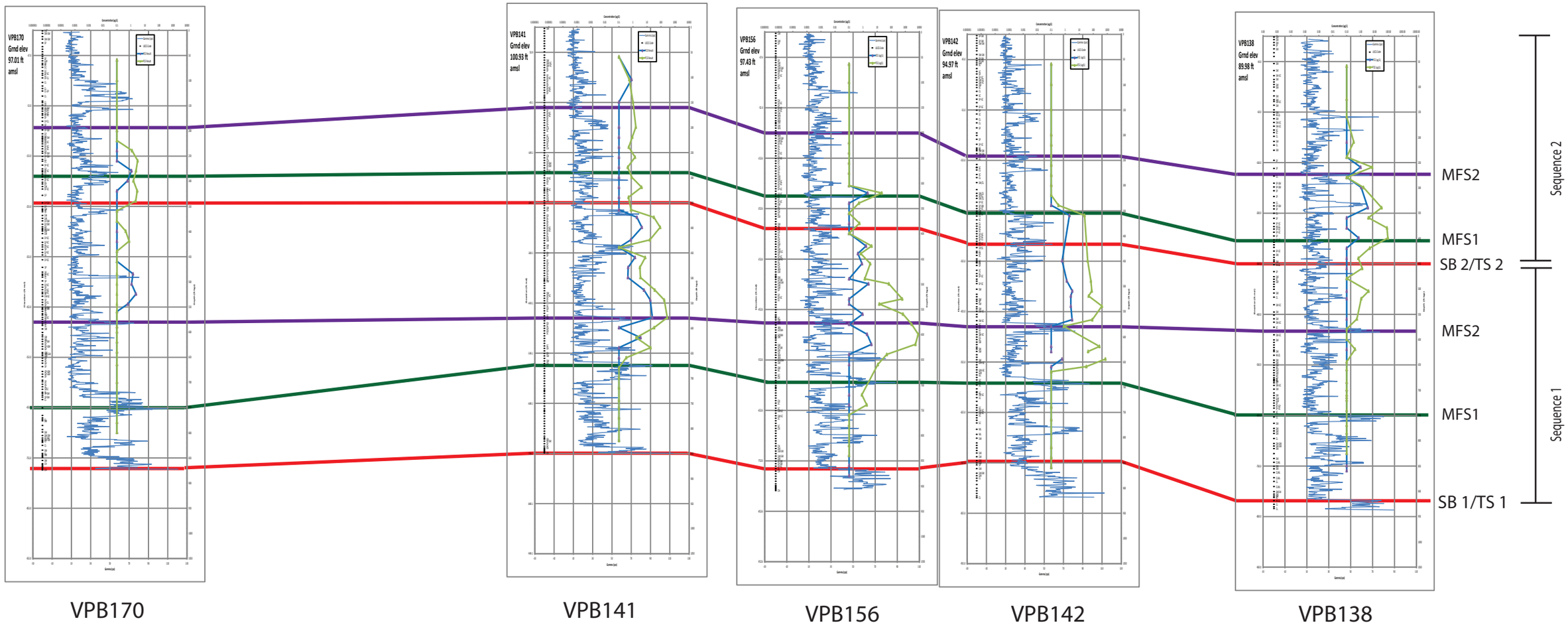
West

5

East

5′

B-B′



VPB170 VPB141 VPB156 VPB142 VPB138

Deltaic (Transgressive Systems Tract)

Deltaic (Highstand Systems Tract)

Channel Bar

Glacial

Splay/Overbank fines

Swamp and Tidal mud

Sequence Boundary

Maximum Flooding Surface 1

Maximum Flooding Surface 2

Transgressive Surface

Figure 8b. Cross Section 5-5′ Showing Depositional Facies Interpretation

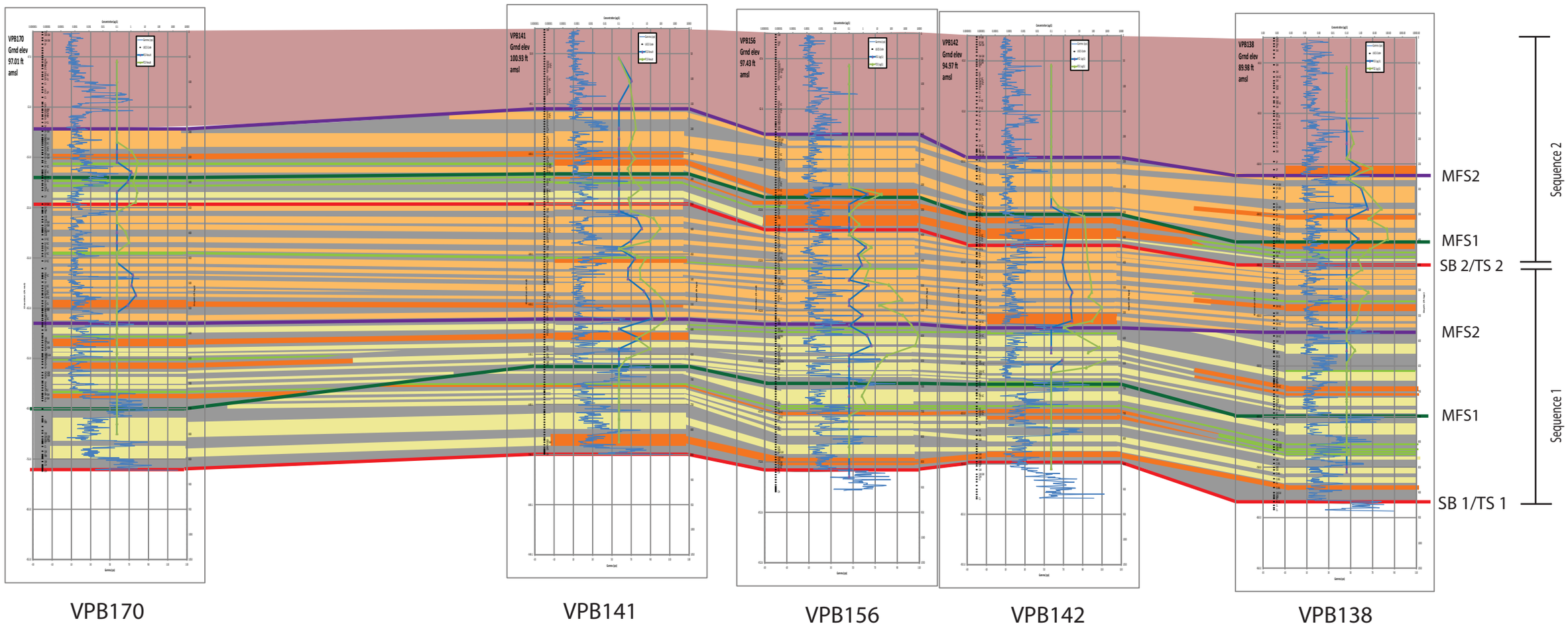
West

5

East

5′

B-B′



Deltaic (Transgressive Systems Tract)

Deltaic (Highstand Systems Tract)

Channel Bar

Glacial

Splay/Overbank fines

Swamp and Tidal mud

Sequence Boundary

Maximum Flooding Surface 1

Maximum Flooding Surface 2

Transgressive Surface

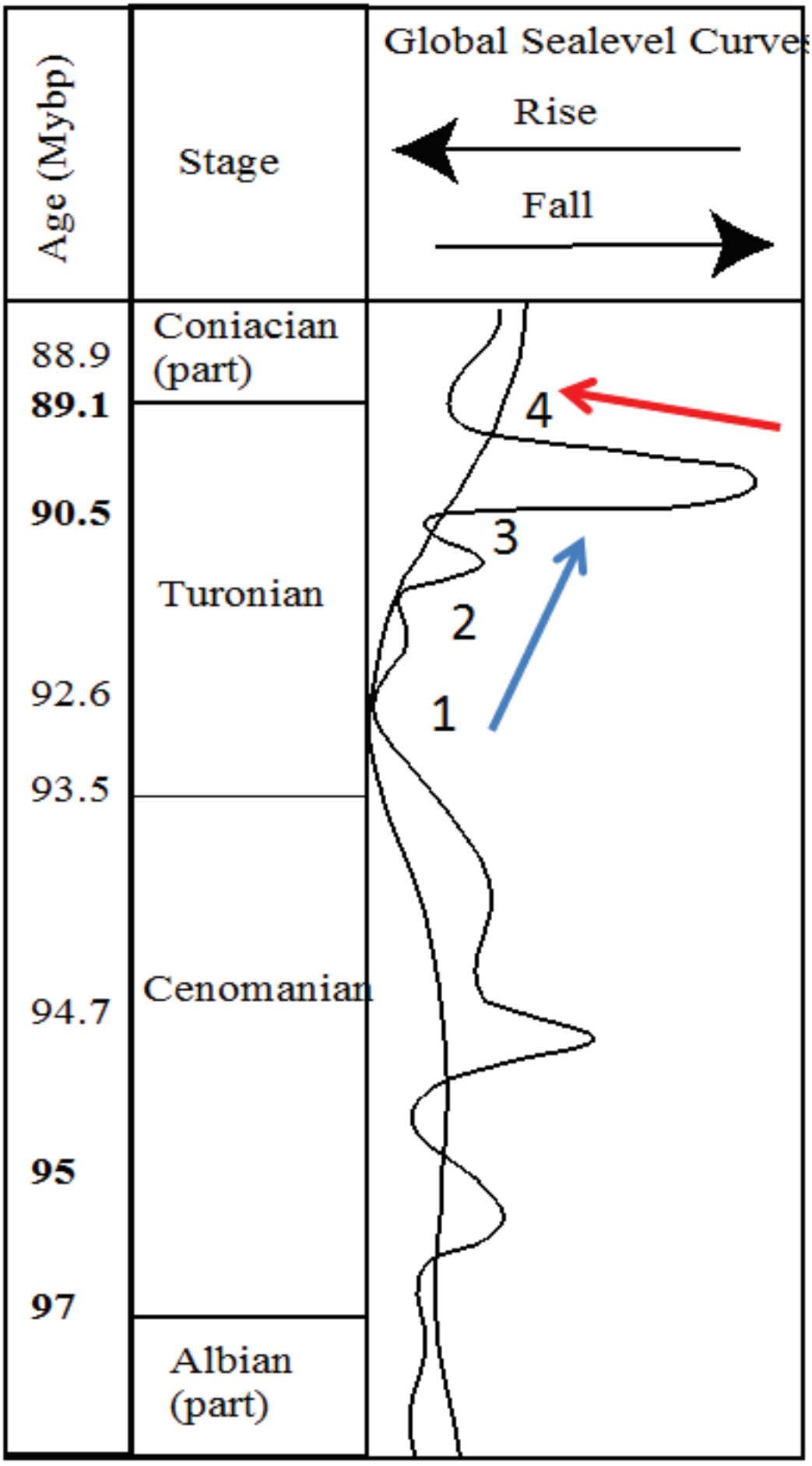


Figure 9. Historic Sea Level Curve (Miller, et al., 2005)

RESOLUTION CONSULTANTS

ATTACHMENT A

Glossary of Basic Terms

Glossary of Basic Terms

Accommodation: The space available for potential sediment accumulation. This space is the combined product of movement of:

1. The sea surface (global sea level measured from a datum, such as the center of earth)
2. The sea floor (tectonics)
3. Changes in rates of sediment accumulation.

Base level: a global reference surface to which continental erosion and marine deposition tend to proceed. It is effectively sea level, although rivers erode slightly below it.

Stratigraphy: The study of succession of the layered rocks (strata) and the lateral/vertical variations on a regional basis.

Facies: The sum total of physical and biological characteristics of a rock.

Depositional Environment: Geomorphological setting of a group of linked facies (depositional facies).

Sequence Stratigraphy: Stratigraphy in relation to accommodation within a framework of time-significant surfaces.

Relative sea level: Position of sea surface relative to a fixed datum near the sea floor determined by global sea level change (eustacy) and vertical movement of the sea floor (tectonism and/or sediment compaction).

Progradation: Sea-ward movement of the shoreline (sometimes called “regression”).

Retrogradation: Land-ward movement of the shoreline (sometimes called “transgression”).

Aggradation: No net land-ward or sea-ward movement of the shoreline.

Sequence: A relatively conformable successions of genetically-related strata bounded by subaerial unconformities and their correlative surfaces.

Sequence Boundary (SB): Surface of erosion or non-deposition (unconformity), separating one sequence from another.

Parasequence: Building block of a sequence. Bounded by Marine Flooding Surfaces.

Marine Flooding Surface (FS): Shale markers that record a rapid relative rise in sea level without deposition of sediment.

Transgressive Surface (TS): A prominent flooding surface that represents the first major flooding surface to follow the sequence boundary.

Maximum Flooding Surface (MFS): The last of the significant flooding surfaces and the widest landward extent of the marine incursion. It represents a turnaround from retrogradation to progradation.

Systems Tract: a three- dimensional group of depositional facies, genetically linked by active (modern) or inferred (ancient) processes and environments. We use the term, systems tract, to designate four subdivisions within each sequence of sea-level cycle: Lowstand, Transgressive, Highstand, and Falling-Stage systems tracts

Lowstand Systems Tract (LST): Systems tract bounded by the Sequence Boundary at the base and Transgressive Surface (TS) on top.

Transgressive Systems Tract (LST): Systems tract bounded by the Transgressive Surface (TS) at the base and Maximum Flooding Surface (MFS) on top.

Highstand Systems Tract (HST): Systems Tract bounded by the Maximum Flooding Surface (MFS) at the base and Basal Surface of Forced Regression (BS) on top.

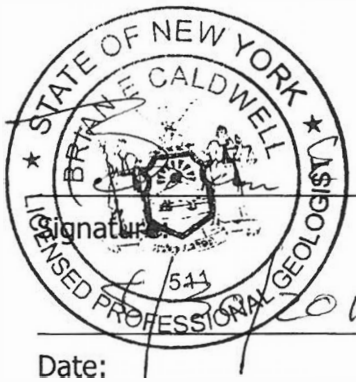
Falling-Stage Systems Tract (FSST): The earliest portion of the Lowstand Systems Tract. Bounded by a Sequence Boundary (SB).

NEW YORK PROFESSIONAL GEOLOGIST SEAL

As a New York-licensed Professional Geologist, I have reviewed and approve this Environmental Sequence Stratigraphy Analysis Memo, Naval Industrial Reserve Plant Bethpage Operable Unit 2, Site 1, and seal it in accordance with Article 145 Section 7209 of the New York State Education Laws. In sealing this document, I certify it was prepared under my direction, the geological information contained in it is true to the best of my knowledge and the geological methods and procedures included herein are consistent with currently accepted geological practices.

It is a violation of this law for any person to alter the contained drawings or the report in any way, unless he or she is acting under the direction of a NY-licensed Professional Geologist.

Name:	Brian E. Caldwell
NY PG License Number:	000511
State:	New York



Signature: Caldwell

Date: 2019