September 25, 2019

Bureau of Case Assignment & Initial Notice
Site Remediation Program
New Jersey Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

RE: **IEC – SOURCE CONTROL REPORT**
Buena Vista Township Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey 08360
Block 7101, Lot 25
NJDEP Incident #: 15-09-24-0947-44
NJDEP SRP PI#: 032698

To Whom It May Concern:

On behalf of Buena Vista Township, CALMAR Associates, LLC. is submitting the attached Immediate Environmental Concern (IEC) Source Control Report for the above referenced Site. We trust that this report satisfies your requirements. Should you have any questions, please do not hesitate to contact the undersigned at 609.476.4500.

Very truly yours,

RK Seibert

Ryan K. Seibert, LSRP
Project Manager

c: Alex Iannone – NJDEP-BEMSA IEC Unit *(via email)*
Lisa A. Tilton, RMC/CMR – BVT *(via email)*
CMA File # 18-1823

SOURCE CONTROL REPORT

BUENA VISTA TOWNSHIP PUBLIC WORKS YARD
430 UNION ROAD
BUENA VISTA TWP., ATLANTIC COUNTY, NJ
Block 7101, Lot 25

NJDEP SRP PI # 032698

VOLUME 1 OF 1
TEXT, TABLES, FIGURES AND APPENDICES A-D

PREPARED FOR:
Buena Vista Township
890 Harding Highway
PO Box 605
Buena, NJ 08310

PREPARED BY:
CALMAR Associates, LLC.
1415 13th Avenue
Dorothy, NJ 08317

SEPTEMBER 2019

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1.0 INTRODUCTION

The following Immediate Environmental Concern (IEC) Source Control Report has been prepared by CALMAR Associates, LLC (CMA) on behalf of Buena Vista Township (BVT) for submittal to the New Jersey Department of Environmental Protection (NJDEP) Site Remediation Program (SRP). In accordance with N.J.A.C. 7:26E-1.11(a)8, this report documents remedial activities conducted by CMA to identify contaminant source areas contributing to the potable well IEC condition identified downgradient of the BVT Public Works Yard (herein referred to as Site) located at 430 Union Road, BVT, Atlantic County, NJ. See Figure 1 for Site Location.

Remedial activities were performed in accordance with the most current NJDEP Technical Requirements for Site Remediation (TRSR) New Jersey Administrative Code (N.J.A.C.) 7:26E, NJDEP Field Sampling Procedure Manual (FSPM), and applicable NJDEP Technical Guidance documents.

2.0 SITE HISTORY

In 2014, volatile organic compounds (VOCs) were detected in private potable wells in the vicinity of the Site. As a result, the Atlantic County Health Department (ACHD) and NJDEP sampled potentially impacted potable wells in the area to evaluate the extent of contamination.

In addition, the NJDEP conducted an investigation to determine if the Site was a possible source of VOCs, mercury and/or perchlorate contamination identified in potable wells along Post Road. The NJDEP summarized its investigation in a Site Investigation Report (SIR) – 2015 which reported that neither mercury nor perchlorate was discovered in groundwater onsite at levels that would indicate an onsite source was impacting offsite wells. However, the NJDEP reported that VOCs including vinyl chloride (VC), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), tetrachloroethene (PCE) and trichloroethene (TCE) were present in onsite groundwater. Furthermore, the NJDEP concluded VOC contamination identified onsite had migrated offsite and is a source of VOC contamination in potable wells along Post Road.

Based upon the findings of its investigation, the NJDEP directed BVT to investigate the extent of the VOC contamination and implement remedial measures.

2.0 PHYSICAL SETTING

The following section details the physical setting of the Site and region.

2.1 SITE DESCRIPTION

The 9.62-acre site is identified by the Atlantic County Tax Assessor as Block 7101, Lot 25. The Site is reported to have been utilized as a gravel pit as early as the 1930's. Subsequently, the Site was utilized as a municipal landfill. The landfill was reported to have encompassed the entire property with the exception of the northeast corner of the site which houses BVT Department of Public Works (DPW) buildings. The specific closure date of the landfill is unknown, however, NJDEP documentation suggests cessation between 1977 and 1982.

In 1998, a former BVT DPW fueling station comprised of two (2) 550-gallon gasoline Underground Storage Tanks (USTs), one (1) 1,000-gallon diesel UST and associated appurtenance were removed from the Site. Following removal, gasoline contamination was identified in subsurface soils. Impacted soils were removed and subsequent groundwater investigations were conducted to address the discharge. In 2014, an Unrestricted-Use Response Action Outcome (RAO) was issued for the area of concern (AOC).

NJDEP Well Records indicate four (4) monitoring wells, identified as MW-1, MW-2 MW-3 and MW-4, currently exist onsite. Wells were installed in April 1988 following the closure of the former landfill. A fifth monitoring well, installed in November 2000 and later decommissioned, was installed to evaluate groundwater quality following the excavation of gasoline impacted soils in the vicinity of the former fueling station.

Currently, the Site is utilized by the BVT DPW for daily operations and as a recycling center for Township residents.

2.2 LAND USE

The Site is bounded by agricultural lands to the north and west, by residential properties to the south, and Union Road to the east, beyond which lies agricultural lands and residential properties.

2.3 TOPOGRAPHY

Per the United States Geological Survey (USGS) 7.5-minute topographic map (Five Points Quadrangle, dated 1977), the Site is approximately 100 feet (ft.) above the National Geodetic Vertical Datum (NGVD). Surface topography indicates that surface drainage is predominately to the southwest.

2.4 SOILS

Per the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, the majority of the Site is mapped as Udorthents, refuse substratum (UdrB) with zero (0) to eight (8) percent slopes. The UdrB unit is described as loamy human-transported material over refuse. The perimeter of the Site is mapped as Aura sandy loam (AugdB) which occurs at two (2) to five (5) percent slopes. The AugdB unit is described as well drained soils comprised of coarse-loamy eolian deposits over loamy gravelly fluviomarine deposits.

2.5 REGIONAL GEOLOGY

The Site is situated atop the Bridgeton Formation. The formation is comprised of sand, clayey sand, silt, pebble gravel, and cobble gravel ranging in color from reddish-yellow to very pale brown or white. The formation varies in thickness and the depth to bedrock is well in exceedance of 100-ft.

2.6 REGIONAL HYDROGEOLOGY

The Site is situated atop the Coastal Plain Aquifer. The Coastal Plain Aquifer system is the source of significant quantities of potable water throughout much of southern New Jersey. The Site lies within the Menatico Creek Watershed which drains to the Maurice River.

The aquifer beneath the Site is classified by the NJDEP as Class II-A.

2.7 SURFACE WATER BODIES

No surface water bodies exist onsite. The nearest surface water body is a perennial stream known as Panther Branch located approximately 2,100 ft. west of the Site.

2.8 WETLANDS

Per the NJ-GeoWeb (2012 Land Use), no wetlands exist on or adjacent to the Site.

3.0 CONTAMINATED SOURCE AREA IDENTIFICATION

The following section presents an overview of remedial activities implemented to identify a contaminated source area.

3.1 GEOPHYSICAL SURVEY

In June 2018, Enviroprobe Service, Inc. (ESI) of Mt. Laurel, NJ conducted a geophysical survey of the Site. The goal of the survey was to delineate the extent of the former landfill and identify subsurface anomalies and/or metallic objects (e.g., buried drums). ESI utilized a Geonics EM31-MK2 system with Differential Global Positioning System (DGPS) and Geometrics 858 Cesium magnetometer with a DGPS to identify subsurface anomalies.

ESI identified metallic anomalies throughout the survey area. In addition, the estimated edge of the former landfill was identified onsite. See Appendix A for ESI's Geophysical Investigation Report.

3.2 SOIL INVESTIGATION

In September 2018, utilizing information obtained from ESI's geophysical survey, CMA implemented an onsite soil investigation to identify a source of groundwater contamination. In March 2019, following receipt of access, CMA conducted an offsite investigation to confirm the extent of the former landfill and obtain soil samples for laboratory analysis. See Figure 2 for location of borings utilized for soil investigation.

3.2.1 Soil Boring Installation

Soil borings were advanced utilizing Direct Push Technology (DPT) methodologies to depths greater than the observed water table interface to ensure the vertical extent of the former landfill could be confirmed. Borings terminated at depths ranging from 20 to 25 ft. below ground surface (bgs.). Continuous soil cores were obtained from DPT soil boring locations using five (5) ft. macro-core samplers and/or dual-tube samplers. Non-disturbed core samples were collected in acetate sleeves within the samplers and removed for examination.

3.2.2 Soil Evaluation

Upon opening the acetate sleeve, each soil core was screened with a calibrated Photo-Ionization Detector (PID). Soils were inspected for visual and/or olfactory evidence of contamination. Soils obtained from each soil sampling location were classified according to a Modified Burmister Soil Classification System. Soil color was indexed to a Munsell Soil Color Chart and given appropriate coding. Soil composition, density, moisture content, sorting and cohesiveness were given subjective ratings.

A description of subsurface conditions encountered at individual boring locations is presented in Appendix B – Soil Boring Logs.

3.2.3 Soil Sample Collection

High biased soil samples were collected at the six (6) inch interval exhibiting the highest field screening results. If no evidence of contamination was identified in the vertical soil profile, soil samples were collected from undisturbed, native soils beneath the landfill refuse.

Pursuant to N.J.A.C. 7:26E-2.1(c)1ii, soil samples were collected and analyzed for Non-Fractionated EPH and Full Target Analyte List (TAL) / Target Compound List (TCL). Soil samples collected for VOC's were containerized directly into laboratory supplied Encore samplers from undisturbed soil cores. Soil samples collected for additional parameters were homogenized prior to being placed inside laboratory provided collection jars, utilizing a stainless-steel mixing bowl and stainless-steel trowel.

3.3 GROUNDWATER INVESTIGATION

In May 2018, CMA initiated a groundwater investigation to define the extent of groundwater contamination previously investigated by the NJDEP. Groundwater investigation activities include the sampling of onsite monitoring wells, and the collection of groundwater samples from onsite and offsite sampling points. See Figure 3 for groundwater sampling locations.

3.3.1 Monitoring Well Repair and Survey

Prior to sampling, onsite monitoring wells were inspected for damage and repaired as needed. Following the repair of damaged well casings and stick-up well protectors at monitoring wells MW-1 and MW-2, all four (4) monitoring wells were re-surveyed to confirm locations and elevations. The horizontal locations were surveyed to the nearest foot relative to the New Jersey State Plane Coordinate (NAD 1983) Datum. Vertical elevations of inner casings (i.e., risers) were determined relative to the NGVD (1929) to the nearest 0.01-foot relative to Mean Sea Level (MSL). Monitoring Well Records and Form B's are presented in Appendix C.

3.3.2 Groundwater Flow Direction

To verify the direction of groundwater flow across the site, CMA collected groundwater elevation measurements from the monitoring well network. Depth to product (if present) and depth to static water elevations were recorded. Measurements were taken to the nearest 0.01 foot from the surveyed and marked location on top of the inner casing. The interface probe was field decontaminated prior to collecting measurements from the first monitoring well and between each subsequent monitoring well. See Table 1 for a summary of groundwater elevation measurements.

Based upon calculated groundwater elevations, groundwater flow across the site is to the southwest.

3.3.3 Monitoring Well Sampling

Prior to CMA's retention, multiple entities collected and analyzed groundwater samples from the onsite monitoring well network. Reported sampling of the monitoring well network was limited to VOC's only. Since contaminants of the former landfill were undocumented, CMA initially collected samples for TCL+TICs/TAL, ammonia-N, nitrate-N, and Total Dissolved Solids (TDS) to ensure future delineation activities addressed all contaminants of concern.

In March 2019, monitoring wells were additionally analyzed for perfluorooctanic acid (PFOA) and perflurooctanesulfonic acid (PFOS) following the establishment of interim specific groundwater quality standards by the NJDEP.

3.3.4 Groundwater Delineation

In September 2018, CMA conducted an onsite groundwater investigation to define the extent of potential contaminants of concern. Based upon monitoring well data and reported groundwater flow direction, groundwater delineation activities focused on the western portion of the site.

Groundwater delineation activities were conducted utilizing DPT methodologies. Aquifer quality was evaluated, on and offsite, from the water table interface to terminal depths up to 100-ft. bgs.

Following sample collection, wells were removed and boring annulus were grouted in accordance to N.J.A.C 7:9D – Well Construction and Maintenance; Sealing of Abandoned Wells.

3.3.5 Groundwater Sample Collection

Water table samples were collected from temporary wells constructed of 1-inch diameter schedule 40 poly-vinyl chloride (PVC) screen (0.01 inch) and installed across the water table interface. Vertical groundwater samples were collected using a GeopProbe SP-16 sampler to facilitate the collection of discrete samples throughout the aquifer.

Prior to sample collection, well screens were developed until the purge water was relatively free of sediment using a peristaltic pump and/or check valve. Water table samples were collected via disposable bottom-filled bailers. Vertical groundwater samples were collected using a check valve and dedicated tubing. Samples were containerized directly into laboratory supplied glassware.

Onsite water table screens identified as, GWS-2. GWS-3, GWS-6, GWS-9 and GWS-10 were analyzed for TCL+TICs/TAL, ammonia-N, nitrate-N, and TDS to identify potential contaminants of concern.

Based upon the findings of onsite groundwater testing, offsite groundwater analysis was limited to TCL VOC+15 with select samples additionally analyzed for ammonia-N, nitrate-N, TDS, PFOA, and PFOS.

3.4 SUMMARY OF SOURCE INVESTIGATION

CMA conducted an investigation with the goal of identifying a source of VOCs contamination identified in potable wells downgradient of the Site. Based upon CMA's source investigation, the following is known:

3.4.1 Landfill Boundaries

- A geophysical survey, in conjunction with soil borings installed along the perimeter of the Site, confirmed the horizontal extent of the former landfill is confined by the Site boundaries. The vertical extent of the former landfill was encountered within (2) ft. above the observed water table. No evidence of refuse was reported in borings installed beyond the Site boundaries.

3.4.2 Soil Investigation

- No physical evidence of VOC contamination was identified in soils inspected by CMA representatives;

- Soil samples were collected in saturated zone soils beneath the former landfill and analyzed for Non-Fractionated EPH and Full TAL/TCL. Laboratory results indicate no compounds were reported in exceedance of the NJDEP Residential Soil Remediation Standard (SRS). Several, compounds including TCE, lead and aluminum were reported in exceedance of the "Default" Impact to Groundwater Screening Levels (IGWSL); however, IGWSL apply to unsaturated zone soils and therefore are not applicable to samples collected within the saturated zone. See Table 2 for a summary of soil sampling results.

3.4.3 Groundwater Investigation

- The lateral flow of groundwater across the Site is to the southwest;

- CMA conducted an investigation to identify potential contaminants of concern in onsite groundwater. Laboratory analysis of onsite groundwater samples indicated anthropogenic contaminants in onsite groundwater include VOCs and PFAS. See Table 3 for a summary of groundwater sampling results.

4.0 DATA USABILITY DETERMINATION

The following section presents a summary of laboratory analysis, Quality Assurance (QA)/Quality Control (QC) procedures and overall data consistency.

4.1 RELIABILITY OF LABORATORY ANALYTICAL DATA

Soil and groundwater samples collected during RI activities conducted by CMA were submitted to TestAmerica Laboratories of Edison, New Jersey (NJ Lab Cert. #: 12028). TestAmerica Laboratories utilized the following methodologies:

- *"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"* (SW-846, 3rd Edition, November 1986 and its updates)
- United States Environmental Protection Agency's (USEPA) *"Methods for Chemical Analysis of Water and Waste"* (MCAWW)
- "*Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices"* (NJDEP EPH Method Revision 3)

The analytical methods for sample analysis included:

<u>Soil</u>

- TCL VOC plus fifteen (15) Tentatively Identified Compounds (TICs) in accordance with EPA SW-846 Method 8260C Data of Known Quality Protocol (DKQP),
- TCL Base Neutral Compounds (BN) plus fifteen (15) TICs in accordance with EPA SW-846 Method 8270D DKQP;
- Organochloride Pesticides in accordance with EPA SW-846 8081B DKQP;
- Polychlorinated Biphenyls (PCBs) in accordance with EPA SW-846 8082A DKQP;
- EPH in accordance with NJDEP EPH – Rev. 3;
- Metals DKQP in accordance with EPA SW-846 6010D DKQP;
- Total Mercury DKQP in accordance with EPA SW-846 Method 7471B DKQP; and
- Cyanide in accordance with EPA SW-846 Method 9012B DKQP.

Groundwater

- TCL VOC plus fifteen (15) TICs in accordance with EPA SW-846 Method 8260C DKQP;
- VOC Select Ion Monitoring (SIM) in accordance with EPA SW-846 Method 8260C SIM DKQP.
- TCL BN plus fifteen (15) TICs in accordance with EPA SW-846 Method 8270D DKQP;
- BN SIM in accordance with EPA SW-846 Method 8270D SIM DKQP;
- Organochloride Pesticides in accordance with EPA SW-846 8081B DKQP;
- PCBs in accordance with EPA SW-846 8082A DKQP;
- Total Metals DKQP in accordance with EPA SW-846 6020D DKQP;
- Mercury DKQP in accordance with EPA SW-846 Method 7470A DKQP;
- Cyanide in accordance with EPA SW-846 Method 9012B DKQP;
- Total Dissolved Solids (TDS) in accordance with SM 2540C;
- Anions in accordance with EPA Method 300_ORGFMS Anions by Ion Chromatograph;
- Ammonia in accordance with EPA Method 350.1;
- PFOS and PFOA by Method 537M.

Potable well samples were collected by Vineland Environmental Laboratories, LLC and submitted to Pace Analytical Services, LLC (Pace) of Melville, NY (NJ Lab Cert. #: NY158) for analysis. Pace utilized the following methodologies:

Potable Wells

- VOC in accordance with EPA Methods 524.2 and 524.3; and
- Perfluoronanoic Acid (PFNA), PFOS, and PFOA by Method 537.

4.2 QA/QC REVIEW

CMA performed a review of Laboratory Case Narratives for analyses performed on soil and groundwater samples collected during remedial activities. Internal anomalies were noted to exist within the Laboratory Case Narrative. These anomalies were discussed and an explanation for each was presented.

Based on a review of the laboratory narratives it was concluded that all analytical results obtained were found to be acceptable based on standard practices and procedures utilized by a laboratory certified by the NJDEP under the state Environmental Laboratory Certification Program (ELCP). The NJDEP regulates laboratories participating in the ELCP such that data obtained from these facilities meets or exceeds the standards set forth by the NJDEP Office of Quality Assurance (OQA). TestAmerica Laboratories and Pace Analytical are also certified under the National Environmental Laboratory Accreditation Program (NELAP).

4.3 SIGNIFICANT EVENTS AND SEASONAL VARIATIONS

No significant occurrences took place on-site that affected the outcome of remedial activities. Sampling events were not influenced by weather or seasonal variations.

5.0 RECEPTOR EVALUATION

CMA conducted a Receptor Evaluation (RE) to document the existence of, and the actions taken to protect potential receptors. Potential receptors that were evaluated included onsite and surrounding property use, groundwater use, potential for Vapor Intrusion (VI) and ecological receptors.

5.1 LAND USE EVALUATION

Sensitive populations including, but not limited to, residential properties, public or private schools grades K-12, child care centers, parks, playgrounds, or other recreational areas were evaluated. No sensitive populations are located onsite. Several residential properties were identified within 200 ft. of the Site boundary.

5.2 GROUNDWATER EVALUATION

A receptor evaluation of groundwater was triggered when groundwater contamination in exceedance of the NJDEP Class II GWQC was identified in potable wells. Following the identification of contamination in private wells, the NJDEP began sampling private potable wells to evaluate the extent of contamination.

CMA conducted a file search of available well records to identify all potable wells located within one-half mile of each point of ground water contamination, and all irrigation, industrial wells, and wells with water allocation permits located within one mile of each point of groundwater contamination.

Since the NJDEP had previously investigated and sampled potable wells within the canvass area (potentially potable wells identified within 250 ft. up-gradient or 500 ft. side or down-gradient of any point of ground water contamination) no door-to-door survey was conducted.

5.3 VAPOR INTRUSION EVALUATION

No VI Investigation has been conducted onsite since groundwater contamination in excess of the NJDEP Vapor Intrusion Groundwater Screening Levels (VIGWSL) has not

been identified within 30-ft. of a building for Petroleum Hydrocarbon Compounds (PHC) or 100-ft. for non-PHC compounds.

The NJDEP conducted a VI investigation of five (5) residences on Post Road. Indoor air samples were collected from the basement of each home using a 6-liter summa canister over a sampling period of 24-hours. In addition, sub-slab soil gas samples were collected from beneath the concrete floor of each basement. Samples were analyzed for VOCs using Method TO-15.

In December 2015, four (4) homes were sampled: 4321 Post Road, 4324 Post Road, 4325 Post Road, and 4328 Post Road. Reported laboratory results showed no exceedances of the NJDEP Indoor Air or Sub-Slab Soil Gas Screening Levels (IASL or SGSL) with the exception of samples collected at 4325 Post Road. Benzene and ethylbenzene concentrations in indoor air exceeded the IASL and benzene concentrations in the soil gas sample exceeded the SGSL.

In March 2016, a second round of indoor air and sub-slab soil gas sampling was completed at two (2) homes: 4320 Post Road and 4325 Post Road (resampled). The sampling results from 4320 Post Road showed no exceedances of the IASL or the SGSL. At 4325 Post Road, soil gas results were reported below the SGSL; however, indoor air results showed benzene, ethylbenzene, and PCE in exceedance of the IASL. The NJDEP determined exceedances to indoor air identified at 4325 Post Road were the result of background contamination. See Appendix D for NJDEP VI Investigation documentation.

5.4 ECOLOGICAL EVALUATION

An Ecological RE was conducted to determine if any Environmentally Sensitive Natural Resources (ESNR), other than groundwater, are present on the site; are adjacent to the site; or may be, have been, or are impacted by contamination from the site. No ESNR are present or have been impacted; therefore, no further ecological evaluation was conducted.

6.0 ENGINEERED RESPONSE ACTION

In 2013, groundwater contamination was reported in a potable well located in the vicinity of the Site. As a result, the ACHD and NJDEP sampled potentially impacted potable wells in the area and identified several compounds above the New Jersey Drinking Water Maximum Contaminant Level (MCL). Contaminants of concern reportedly detected included: VC, cis-1,2-DCE, cis-1,2-dichloropropane, TCE, benzene, mercury and perchlorate. *Note: The NJDEP's Site Remediation & Waste management Program uses the Class II GWQC when evaluating drinking water quality in private potable wells. These standards may differ from MCLs used to evaluate public water supplies.*

Upon confirmation of groundwater contamination, residences were eligible for Point of Entry Treatment (POET) systems through the New Jersey Spill Fund Claims Section (Spill Fund). The Spill Fund financed the installation, maintenance and monitoring of POET systems to treat private potable wells contaminated with site related (select VOCs) and non-site related contamination (perchlorate and mercury),

In December 2018, BVT reimbursed the NJDEP for the installation, monitoring and maintenance of 13-POET systems that were installed to treat site related contaminants. Subsequently, the responsibility for maintaining and monitoring the POET systems installed to treat VOCs was transferred from the Spill Fund to BVT. The Spill Fund continued to maintain responsibility for POET systems installed to treat mercury and/or perchlorate.

In February 2019, an additional IEC condition was identified, and a POET system was installed at 4328 Post Road. Currently, BVT maintains and monitors POET systems installed to treat VOCs at 14-residences:

POET ADDRESS	PROPERTY OWNER	BLOCK	LOT
4268 POST ROAD	LARRY AND AMY LENTZ (former TAMBURRO / DRUZIAKO)	7101	37
4320 POST ROAD	SPEZIALI, PAUL AND LOLA	7101	33
4273 POST ROAD	GALLINO, JOHN AND NANCY	7601	13

4254 POST ROAD	BYLONE, GLORIA	7101	39
4310 POST ROAD	FURY, PETER AND BETTY	7101	34.01
4324 POST ROAD	TURCHI, RONALD	7101	32
4245 POST ROAD	RICHARD & REBECCA KULL (former LEOPOLD)	7601	39
4321 POST ROAD	DOE, PAULA ANNE	7001	4
4313 POST ROAD	GILBERT, LARRY & LYNDA	7001	2
4301 POST ROAD	NICOLO, VINCENT & ANITA	7001	1.01
4249 POST ROAD	REGALBUTO, JOSEPH & RACHEL	7601	10
4305 POST ROAD	JOST, JAMES & KRISTIN OHNEMULLER	7001	1.02
4316 POST ROAD	SPEZIALI, BRIAN & DANA	7101	34
4328 POST ROAD	PAFACOM INC	7101	31

The location of POET systems listed above are presented on Figure 4 - Currently Known Extent (CKE) Map: Potable Well Contamination.

BVT maintains a POET system sampling schedule based upon prior sampling conducted by the Spill Fund. Treated groundwater samples are collected bi-annually and raw (untreated) samples are collected annually. A summary of analytical data collected for the 14-POET systems maintained by BVT is presented on Figure 4. Tabulated analytical data for sampling events conducted on behalf of BVT is included as Table 4.

7.0 MONITORING and MAINTENANCE PLAN

BVT currently monitors and maintains 14-granular activated carbon (GAC) POET systems installed to remove VOC contamination from private potable wells located downgradient of the Site.

The POET systems consist of pretreatment filters followed by dual treatment tanks piped in a series. Tanks contain 1.5 cubic ft. of virgin grade GAC. Boiler drain valves, located prior to treatment (RAW) and between the treatment tanks (TREATED), allow for the collection of monitoring samples.

Monitoring is accomplished via bi-annual sample collection to ensure the POET systems are operating as designed. BVT has contracted a NJ-certified laboratory to schedule, collect and analyze raw (annual) and treated (bi-annual) groundwater samples from each POET system. Analytical results are forwarded by the laboratory directly to property owner. Full Laboratory Deliverables and Electronic Data Deliverables are forwarded to the NJDEP by CMA on behalf of BVT.

If contamination in exceedance of one-half (1/2) of the GWQC (i.e., breakthrough) is identified in the treated sample, maintenance of the POET system is performed by a homeowner selected maintenance contractor. POET system maintenance is accomplished by removing the spent GAC from the first treatment tank, rotating the primary treatment tank to the second tank position, and replacing the GAC in the now empty secondary treatment tank.

Following maintenance, treated samples are recollected to confirm system integrity.

8.0 IEC SOURCE CONTROL

CMA conducted an exhaustive investigation to identify the source of chlorinated solvent contamination identified in potable wells downgradient of the Site. Initially, a geophysical survey was conducted to identify the horizontal limits of the former landfill and locate subsurface anomalies and/or metallic objects. Based upon the findings of the survey, soil borings were installed within the area of concern to define the extent of the former landfill and investigate potential sources of contamination.

Since the dissolved phase plume of site-related contamination has migrated offsite, it can be presumed that contamination has migrated vertically beyond the confines of the refuse into saturated soils beneath the former landfill. However, no physical or analytical evidence of VOC contamination was identified in soils within or beneath the confines of the former landfill.

Although a dissolved phase plume has been identified emanating from the Site, no contaminant source areas were identified; therefore, no source control was implemented.

TABLES

TABLE 1

Summary of Groundwater Elevation Data

Buena Vista Twp. Public Works Yard

430 Union Road

Buena Vista Township, Atlantic County, New Jersey

LOCAL WELL ID.	WELL PERMIT NUMBER	NORTH	EAST	TIC *(ft. above grade)*	DTB / TIC *(ft.)*	SCREEN LENGTH *(ft.)*	SCREEN DIAMETER *(in.)*
MW-1	35-06406	240499.196	373622.835	2.8	41.9	20	4
MW-2	35-06405	240228.298	373004.185	2.6	41.4	20	4
MW-3	35-06404	240540.377	373025.414	2.1	42.2	20	4
MW-4	35-06403	240862.751	373046.147	1.2	40.7	20	4

3-May-19				
LOCAL WELL ID.	TIC / MSL *(ft.)*	DTP/TIC *(ft.)*	DTW/TIC *(ft.)*	CALC. ELEVATION (MSL) *(ft.)*
MW-1	109.57	--	21.07	88.5
MW-2	103.85	--	16.04	87.81
MW-3	111.74	--	23.77	87.97
MW-4	113.02	--	24.93	88.09

19-Mar-19				
LOCAL WELL ID.	TIC / MSL *(ft.)*	DTP/TIC *(ft.)*	DTW/TIC *(ft.)*	CALC. ELEVATION (MSL) *(ft.)*
MW-1	109.57	--	18.78	90.79
MW-2	103.85	--	14.06	89.79
MW-3	111.74	--	21.79	89.95
MW-4	113.02	--	22.99	90.03

NOTES:

1. New Jersey State Plan Coordinates NAD 83 to nearest 10 feet.
2. Elevation of Top of Inner Casing (TIC) from reference mark (nearest 0.01') / Mean Sea Level (MSL)
3. DTB/TIC = Depth to well bottom measured from TIC.
4. DTP/TIC = Depth to product (DTP) measured from TIC.
5. Depth to water (DTW) measured from TIC.

TABLE 2
Summary of Remedial Investigation Analytical Results - Soil
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-3/16.0-16.5**		**SB-4/19.5-20.0**		**SB-5/24.5-25.0**		**SB-6/26.5-27.0**		**SB-8/23.0-23.5**		**SB-10/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	16.0 - 16.5'		19.5 - 20.0'		24.5 - 25.0'		26.5 - 27.0'		23.0 - 23.5'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165465-1		460-165465-2		460-165465-3		460-165465-4		460-165588-1		460-165588-2	
Sampling Date				9/25/2018		9/25/2018		9/25/2018		9/25/2018		9/26/2018		9/26/2018	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
VO+15 BY 8260C *(mg/kg)*															
1,1,1-Trichloroethane	160000	NA	0.3	0.00022	U	0.00021	U	0.00023	U	0.00024	U	0.00028	U	0.00023	U
1,1,2,2-Tetrachloroethane	1	3	0.007	0.00020	U	0.00019	U	0.00021	U	0.00022	U	0.00026	U	0.00022	U
1,1,2-Trichloroethane	2	6	0.02	0.00016	U	0.00016	U	0.00017	U	0.00018	U	0.00021	U	0.00018	U
1,1-Dichloroethane	8	24	0.2	0.00019	U	0.00019	U	0.00020	U	0.00021	U	0.00025	U	0.00021	U
1,1-Dichloroethene	11	150	0.008	0.00021	U	0.00020	U	0.00022	U	0.00023	U	0.00027	U	0.00023	U
1,2,3-Trichloropropane	NA	NA	NA	0.00024	U	0.00023	U	0.00025	U	0.00026	U	0.00031	U	0.00026	U
1,2,4-Trimethylbenzene	NA	NA	NA	0.000087	U	0.000085	U	0.000091	U	0.000095	U	0.00011	U	0.000095	U
1,2-Dibromoethane	0.008	0.04	0.005	0.00017	U	0.00016	U	0.00017	U	0.00018	U	0.00022	U	0.00018	U
1,2-Dichloroethane	0.9	3	0.005	0.00027	U	0.00027	U	0.00029	U	0.00030	U	0.00036	U	0.00030	U
1,2-Dichloropropane	2	5	0.005	0.00039	U	0.00038	U	0.00041	U	0.00043	U	0.00051	U	0.00043	U
2-Butanone	3100	44000	0.9	0.0032	J	0.0010	U	0.0011	U	0.0011	U	0.0022	J	0.0061	
2-Hexanone	NA	NA	NA	0.00072	U	0.00070	U	0.00076	U	0.00079	U	0.00094	U	0.00079	U
4-Methyl-2-pentanone	NA	NA	NA	0.00062	U	0.00060	U	0.00064	U	0.00067	U	0.00080	U	0.00067	U
Acetone	70000	NA	19	0.024		0.0046		0.022		0.025		0.022		0.031	
Benzene	2	5	0.005	0.00024	U	0.00023	U	0.00025	U	0.00026	U	0.00031	U	0.00031	J
Bromodichloromethane	1	3	0.005	0.00024	U	0.00023	U	0.00025	U	0.00026	U	0.00031	U	0.00026	U
Bromoform	81	280	0.03	0.00039	U	0.00038	U	0.00041	U	0.00043	U	0.00051	U	0.00043	U
Bromomethane	25	59	0.04	0.00044	U	0.00043	U	0.00046	U	0.00048	U	0.00057	U	0.00048	U
Carbon disulfide	7800	110000	6	0.00041	J	0.00024	U	0.0013		0.00098	J	0.00032	U	0.00027	U
Carbon tetrachloride	2	4	0.005	0.00017	U	0.00016	U	0.00018	U	0.00018	U	0.00022	U	0.00018	U
Chlorobenzene	510	7400	0.6	0.00016	U	0.00016	U	0.00017	U	0.00018	U	0.00021	U	0.00061	J
Chloroethane	220	1100	NA	0.00048	U	0.00047	U	0.00051	U	0.00053	U	0.00063	U	0.00053	U
Chloroform	0.6	2	0.4	0.00030	U	0.00029	U	0.00031	U	0.00032	U	0.00039	U	0.00032	U
Chloromethane	4	12	NA	0.00040	U	0.00039	U	0.00042	U	0.00044	U	0.00053	U	0.00044	U
cis-1,2-Dichloroethene	230	560	0.3	0.00014	U	0.00014	U	0.00015	U	0.00015	U	0.00018	U	0.00015	U
cis-1,3-Dichloropropene	NA	NA	0.005	0.00025	U	0.00025	U	0.00026	U	0.00028	U	0.00033	U	0.00027	U
Dibromochloromethane	3	8	0.005	0.00018	U	0.00018	U	0.00019	U	0.00020	U	0.00023	U	0.00020	U
Ethylbenzene	7800	110000	13	0.00018	U	0.00018	U	0.00019	U	0.00020	U	0.00024	U	0.00020	U
Methylene Chloride	46	230	0.01	0.00037	J	0.00025	J	0.00031	J	0.00030	J	0.00034	J B	0.00028	J B
Styrene	90	260	3	0.00011	U	0.00011	U	0.00012	U	0.00012	U	0.00015	U	0.00012	U
TBA	1400	11000	0.3	0.0031	U	0.0030	U	0.0032	U	0.0033	U	0.0040	U	0.0033	U
Tetrachloroethene	43	1500	0.005	0.00013	U	0.00013	U	0.00014	U	0.00014	U	0.00017	U	0.00014	U
Toluene	6300	91000	7	0.00058	U	0.00056	U	0.00061	U	0.00063	U	0.00075	U	0.00063	U
trans-1,2-Dichloroethene	300	720	0.6	0.00023	U	0.00022	U	0.00024	U	0.00025	U	0.00030	U	0.00025	U
trans-1,3-Dichloropropene	NA	NA	0.005	0.00025	U	0.00024	U	0.00026	U	0.00027	U	0.00032	U	0.00027	U
Trichloroethene	3	10	0.01	0.00095	B	0.00023	J B	0.00049	J B	0.00047	J B	0.00050	J B	0.00015	J B
Vinyl chloride	0.7	2	0.005	0.00051	U	0.00049	U	0.00053	U	0.00055	U	0.00066	U	0.00055	U

TABLE 2
Summary of Remedial Investigation Analytical Results - Soil
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-3/16.0-16.5**		**SB-4/19.5-20.0**		**SB-5/24.5-25.0**		**SB-6/26.5-27.0**		**SB-8/23.0-23.5**		**SB-10/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	16.0 - 16.5'		19.5 - 20.0'		24.5 - 25.0'		26.5 - 27.0'		23.0 - 23.5'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165465-1		460-165465-2		460-165465-3		460-165465-4		460-165588-1		460-165588-2	
Sampling Date				9/25/2018		9/25/2018		9/25/2018		9/25/2018		9/26/2018		9/26/2018	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
VO+15 BY 8260C *(mg/kg)* - Continued															
Xylenes, Total	12000	170000	19	0.00023	U	0.00023	U	0.00024	U	0.00026	U	0.00031	U	0.00025	U
Total Conc	NA	NA	NA	0.02893		0.00508		0.0241		0.02675		0.02504		0.03845	
Total Estimated Conc. (TICs)	NA	NA	NA	0.017		0.0		0.0		0.0		0.0		0.0	
BN+15 BY 8270D *(mg/kg)*															
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	0.0051	U	0.0048	U	0.0048	U	0.0050	U	0.0048	U	0.0048	U
1-Methylnaphthalene	NA	NA	NA	0.014	U	0.014	U	0.013	U	0.014	U	0.013	U	0.014	U
2,2'-oxybis[1-chloropropane]	NA	NA	5	0.0070	U	0.0067	U	0.0066	U	0.0070	U	0.0066	U	0.0067	U
2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.026	U	0.025	U	0.025	U	0.026	U	0.025	U	0.025	U
2,4,5-Trichlorophenol	6100	68000	68	0.013	U	0.012	U	0.012	U	0.013	U	0.012	U	0.012	U
2,4,6-Trichlorophenol	19	74	0.2	0.020	U	0.019	U	0.018	U	0.019	U	0.018	U	0.019	U
2,4-Dichlorophenol	180	2100	0.2	0.0082	U	0.0078	U	0.0077	U	0.0081	U	0.0077	U	0.0078	U
2,4-Dimethylphenol	1200	14000	1	0.017	U	0.016	U	0.016	U	0.017	U	0.016	U	0.016	U
2,4-Dinitrophenol	120	1400	0.3	0.19	U	0.18	U	0.18	U	0.19	U	0.18	U	0.18	U
2,4-Dinitrotoluene	0.7	3	NA	0.020	U	0.019	U	0.018	U	0.020	U	0.018	U	0.019	U
2,6-Dinitrotoluene	0.7	3	NA	0.013	U	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U
2-Chloronaphthalene	NA	NA	NA	0.018	U	0.017	U	0.017	U	0.018	U	0.017	U	0.017	U
2-Chlorophenol	310	2200	0.8	0.0054	U	0.0052	U	0.0051	U	0.0054	U	0.0051	U	0.0052	U
2-Methylnaphthalene	230	2400	8	0.0049	U	0.0046	U	0.0046	U	0.0048	U	0.0046	U	0.0046	U
2-Methylphenol	310	3400	NA	0.0063	U	0.0060	U	0.0059	U	0.0062	U	0.0059	U	0.0060	U
2-Nitroaniline	39	23000	NA	0.015	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
2-Nitrophenol	NA	NA	NA	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U
3,3'-Dichlorobenzidine	1	4	0.2	0.059	U *	0.056	U *	0.055	U *	0.058	U *	0.055	U *	0.056	U *
3-Nitroaniline	NA	NA	NA	0.021	U	0.020	U	0.020	U	0.021	U	0.020	U	0.020	U
4,6-Dinitro-2-methylphenol	6	68	0.3	0.063	U	0.060	U	0.059	U	0.063	U	0.059	U	0.060	U
4-Bromophenyl phenyl ether	NA	NA	NA	0.0050	U	0.0048	U	0.0047	U	0.0050	U	0.0047	U	0.0048	U
4-Chloro-3-methylphenol	NA	NA	NA	0.0065	U	0.0061	U	0.0061	U	0.0064	U	0.0061	U	0.0061	U
4-Chloroaniline	NA	NA	NA	0.027	U	0.026	U	0.026	U	0.027	U	0.026	U	0.026	U
4-Chlorophenyl phenyl ether	NA	NA	NA	0.0061	U	0.0058	U	0.0058	U	0.0061	U	0.0058	U	0.0058	U
4-Methylphenol	31	340	NA	0.0066	U	0.0063	U	0.0062	U	0.0066	U	0.0062	U	0.0063	U
4-Nitroaniline	NA	NA	NA	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U
4-Nitrophenol	NA	NA	NA	0.063	U	0.060	U	0.060	U	0.063	U	0.059	U	0.060	U
Acenaphthene	3400	37000	110	0.028	U	0.027	U	0.027	U	0.028	U	0.027	U	0.027	U
Acenaphthylene	NA	300000	NA	0.0040	U	0.0038	U	0.0038	U	0.0040	U	0.0038	U	0.0038	U
Acetophenone	2	5	3	0.0063	U	0.0060	U	0.0059	U	0.0062	U	0.0059	U	0.0060	U
Anthracene	17000	30000	2400	0.0043	U	0.0041	U	0.0041	U	0.0043	U	0.0041	U	0.0041	U
Atrazine	210	2400	0.2	0.0098	U	0.0093	U	0.0092	U	0.0097	U	0.0092	U	0.0093	U
Benzaldehyde	6100	68000	NA	0.017	U	0.016	U	0.016	U	0.017	U	0.016	U	0.016	U

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Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-3/16.0-16.5**		**SB-4/19.5-20.0**		**SB-5/24.5-25.0**		**SB-6/26.5-27.0**		**SB-8/23.0-23.5**		**SB-10/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	16.0 - 16.5'		19.5 - 20.0'		24.5 - 25.0'		26.5 - 27.0'		23.0 - 23.5'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165465-1		460-165465-2		460-165465-3		460-165465-4		460-165588-1		460-165588-2	
Sampling Date				9/25/2018		9/25/2018		9/25/2018		9/25/2018		9/26/2018		9/26/2018	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
BN+15 BY 8270D *(mg/kg)* - Continued															
Benzo[a]anthracene	5	17	0.8	0.014	U	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U
Benzo[a]pyrene	0.5	2	0.2	0.010	U	0.0099	U	0.0097	U	0.010	U	0.0097	U	0.0099	U
Benzo[b]fluoranthene	5	17	2	0.010	U	0.0096	U	0.0094	U	0.010	U	0.0094	U	0.0096	U
Benzo[g,h,i]perylene	380000	30000	NA	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Benzo[k]fluoranthene	45	170	25	0.0076	U	0.0073	U	0.0072	U	0.0076	U	0.0072	U	0.0073	U
Bis(2-chloroethoxy)methane	NA	NA	NA	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U
Bis(2-chloroethyl)ether	0.4	2	0.2	0.0047	U	0.0045	U	0.0044	U	0.0047	U	0.0044	U	0.0045	U
Bis(2-ethylhexyl) phthalate	35	140	1200	0.021	U	0.020	U	0.019	U	0.020	U	0.019	U	0.020	U
Butyl benzyl phthalate	1200	14000	230	0.018	U	0.017	U	0.017	U	0.018	U	0.017	U	0.017	U
Caprolactam	31000	340000	12	0.023	U	0.022	U	0.022	U	0.023	U	0.022	U	0.022	U
Carbazole	24	96	NA	0.0045	U	0.0043	U	0.0043	U	0.0045	U	0.0043	U	0.0043	U
Chrysene	450	1700	80	0.0066	U	0.0063	U	0.0062	U	0.0065	U	0.0062	U	0.0063	U
Dibenz(a,h)anthracene	0.5	2	0.8	0.017	U	0.016	U	0.016	U	0.017	U	0.016	U	0.016	U
Dibenzofuran	NA	NA	NA	0.0055	U	0.0052	U	0.0051	U	0.0054	U	0.0051	U	0.0052	U
Diethyl phthalate	49000	550000	88	0.0056	U	0.0054	U	0.0053	U	0.0056	U	0.0053	U	0.0054	U
Dimethyl phthalate	NA	NA	NA	0.0047	U	0.0045	U	0.0044	U	0.0047	U	0.0044	U	0.0045	U
Di-n-butyl phthalate	6100	68000	760	0.069	U	0.065	U	0.064	U	0.068	U	0.064	U	0.065	U
Di-n-octyl phthalate	2400	27000	3300	0.021	U	0.020	U	0.019	U	0.020	U	0.019	U	0.020	U
Diphenyl	61	240	140	0.0052	U	0.0049	U	0.0048	U	0.0051	U	0.0048	U	0.0049	U
Fluoranthene	2300	24000	1300	0.0050	U	0.0048	U	0.0047	U	0.0050	U	0.0047	U	0.0048	U
Fluorene	2300	24000	170	0.0053	U	0.0050	U	0.0050	U	0.0052	U	0.0049	U	0.0050	U
Hexachlorobenzene	0.3	1	0.2	0.0057	U	0.0054	U	0.0054	U	0.0057	U	0.0053	U	0.0054	U
Hexachlorobutadiene	6	25	0.9	0.0083	U	0.0079	U	0.0078	U	0.0082	U	0.0078	U	0.0079	U
Hexachlorocyclopentadiene	45	110	320	0.034	U	0.032	U	0.032	U	0.034	U	0.032	U	0.032	U
Hexachloroethane	12	48	0.2	0.0060	U	0.0057	U	0.0056	U	0.0059	U	0.0056	U	0.0057	U
Indeno[1,2,3-cd]pyrene	5	17	7	0.015	U	0.014	U	0.014	U	0.015	U	0.014	U	0.014	U
Isophorone	510	2000	0.2	0.010	U	0.0097	U	0.0096	U	0.010	U	0.0096	U	0.0097	U
Naphthalene	6	17	25	0.0067	U	0.0064	U	0.0063	U	0.0067	U	0.010	J	0.031	J
Nitrobenzene	5	14	0.2	0.0093	U	0.0089	U	0.0088	U	0.0093	U	0.0088	U	0.0089	U
N-Nitrosodimethylamine	0.7	0.7	0.7	0.0055	U	0.0052	U	0.0052	U	0.0055	U	0.0052	U	0.0052	U
N-Nitrosodi-n-propylamine	0.2	0.3	0.2	0.0062	U	0.0059	U	0.0058	U	0.0061	U	0.0058	U	0.0059	U
N-Nitrosodiphenylamine	99	390	0.4	0.0074	U	0.0071	U	0.0070	U	0.0074	U	0.0070	U	0.0071	U
Pentachlorophenol	0.9	3	0.3	0.080	U	0.076	U	0.075	U	0.079	U	0.075	U	0.076	U
Phenanthrene	NA	300000	NA	0.0068	U	0.0065	U	0.0064	U	0.0068	U	0.0064	U	0.0065	U
Phenol	18000	210000	8	0.0058	U	0.0055	U	0.0054	U	0.0057	U	0.0054	U	0.0055	U
Pyrene	1700	18000	840	0.0097	U	0.0092	U	0.0091	U	0.0096	U	0.0091	U	0.0092	U
Total Conc	NA	NA	NA	0.0		0.0		0.0		0.0		0.01		0.031	

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Sampling Date				9/25/2018		9/25/2018		9/25/2018		9/25/2018		9/26/2018		9/26/2018	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
BN+15 BY 8270D *(mg/kg)* - Continued															
Total Estimated Conc. (TICs)	NA	NA	NA	0.0		0.0		0.0		0.0		0.0		0.0	
PESTICIDES BY 8081B *(mg/kg)*															
4,4'-DDD	3	13	4	0.0013	U	0.0013	U	0.0013	U	0.0013	U	0.0013	U	0.0013	U
4,4'-DDE	2	9	18	0.00093	U	0.00088	U	0.00087	U	0.00092	U	0.00087	U	0.0024	J
4,4'-DDT	2	8	11	0.0014	U	0.0014	U	0.0014	U	0.0014	U	0.0014	U	0.0014	U
Aldrin	0.04	0.2	0.2	0.0012	U	0.0011	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U
alpha-BHC	0.1	0.5	0.002	0.00080	U	0.00076	U	0.00075	U	0.00079	U	0.00075	U	0.00076	U
beta-BHC	0.4	2	0.002	0.00088	U	0.00084	U	0.00083	U	0.00087	U	0.00083	U	0.00084	U
Chlordane	NA	NA	NA	0.019	U	0.018	U	0.018	U	0.019	U	0.018	U	0.018	U
delta-BHC	NA	NA	NA	0.00048	U	0.00046	U	0.00045	U	0.00048	U	0.00045	U	0.00046	U
Dieldrin	0.04	0.2	0.003	0.0010	U	0.00097	U	0.00096	U	0.0010	U	0.00096	U	0.00097	U
Endosulfan I	NA	NA	NA	0.0012	U	0.0011	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U
Endosulfan II	NA	NA	NA	0.0020	U	0.0019	U	0.0019	U	0.0020	U	0.0019	U	0.0019	U
Endosulfan sulfate	470	6800	2	0.00099	U	0.00094	U	0.00093	U	0.00098	U	0.00093	U	0.00094	U
Endrin	23	340	1	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
Endrin aldehyde	NA	NA	NA	0.0019	U	0.0018	U	0.0017	U	0.0018	U	0.0017	U	0.0018	U
Endrin ketone	NA	NA	NA	0.0015	U	0.0015	U	0.0014	U	0.0015	U	0.0014	U	0.0015	U
gamma-BHC (Lindane)	0.4	2	0.002	0.00073	U	0.00069	U	0.00068	U	0.00072	U	0.00068	U	0.00069	U
Heptachlor	0.1	0.7	0.5	0.00093	U	0.00088	U	0.00087	U	0.00092	U	0.00087	U	0.00088	U
Heptachlor epoxide	0.07	0.3	0.01	0.0012	U	0.0011	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U
Methoxychlor	390	5700	160	0.0018	U	0.0017	U	0.0017	U	0.0018	U	0.0017	U	0.0017	U
Toxaphene	0.6	3	0.3	0.028	U	0.027	U	0.027	U	0.028	U	0.027	U	0.027	U
PCBs BY 8082A *(mg/kg)*															
Aroclor 1016	NA	NA	NA	0.010	U	0.0099	U	0.0098	U	0.010	U	0.0098	U	0.0099	U
Aroclor 1221	NA	NA	NA	0.010	U	0.0099	U	0.0098	U	0.010	U	0.0098	U	0.0099	U
Aroclor 1232	NA	NA	NA	0.010	U	0.0099	U	0.0098	U	0.010	U	0.0098	U	0.0099	U
Aroclor 1242	NA	NA	NA	0.010	U	0.0099	U	0.0098	U	0.010	U	0.0098	U	0.0099	U
Aroclor 1248	NA	NA	NA	0.010	U	0.0099	U	0.0098	U	0.010	U	0.0098	U	0.0099	U
Aroclor 1254	NA	NA	NA	0.011	U	0.010	U	0.010	U	0.011	U	0.010	U	0.010	U
Aroclor 1260	NA	NA	NA	0.011	U	0.010	U	0.010	U	0.011	U	0.010	U	0.010	U
NJDEP EPH															
Total EPH (C9-C40)	5,100	54,000	NA	2.3	U	2.2	U	2.2	U	2.3	U	2.2	U	44	
METALS BY 6010D *(mg/kg)*															
Aluminum	78000	NA	6000	**6730**		3300		4620		3670		2910		5400	
Antimony	31	450	6	1.0	U	0.97	U	0.87	U	0.89	U	0.91	U	0.97	U
Arsenic	19	19	19	1.6	J	0.98	U	0.88	U	0.90	U	0.92	U	3.5	
Barium	16000	59000	2100	13.5	J	5.5	J	7.6	J	4.0	J	5.0	J	52.4	

TABLE 2
Summary of Remedial Investigation Analytical Results - Soil
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-3/16.0-16.5**		**SB-4/19.5-20.0**		**SB-5/24.5-25.0**		**SB-6/26.5-27.0**		**SB-8/23.0-23.5**		**SB-10/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	16.0 - 16.5'		19.5 - 20.0'		24.5 - 25.0'		26.5 - 27.0'		23.0 - 23.5'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165465-1		460-165465-2		460-165465-3		460-165465-4		460-165588-1		460-165588-2	
Sampling Date				9/25/2018		9/25/2018		9/25/2018		9/25/2018		9/26/2018		9/26/2018	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
METALS BY 6010D *(mg/kg)* - Continued															
Beryllium	16	140	0.7	0.10	U	0.097	U	0.086	U	0.089	U	0.090	U	0.097	U
Cadmium	78	78	2	0.15	U	0.15	U	0.13	U	0.14	U	0.14	U	0.51	J
Calcium	NA	NA	NA	145	J	107	J	57.1	U	58.7	U	144	J	2060	
Chromium	NA	NA	NA	8.3		5.0		6.9		4.6		4.0		12.1	
Cobalt	1600	590	90	1.4	U	1.3	U	1.2	U	1.2	U	1.2	U	1.5	J
Copper	3100	45000	11000	3.7	J	2.9	U	2.6	U	2.7	U	2.7	U	28.0	
Iron	NA	NA	NA	2960		1420		991		844		636		16900	
Lead	400	800	90	3.7		2.1	J	2.6		2.0		1.9	J	**172**	
Magnesium	NA	NA	NA	66.0	U	63.3	U	56.5	U	58.1	U	59.0	U	171	J
Manganese	11000	5900	65	3.1	J	7.1		1.9	J	1.7	J	3.3		61.4	
Nickel	1600	23000	48	4.3	J	2.5	J	3.1	J	2.3	J	2.4	J	8.6	J
Potassium	NA	NA	NA	125	J	67.6	U	75.7	J	80.5	J	63.0	U	169	J
Selenium	390	5700	11	2.7	U	2.6	U	2.3	U	2.4	U	2.4	U	2.6	U
Silver	390	5700	1	0.21	U	0.21	U	0.18	U	0.19	U	0.19	U	0.21	U
Sodium	NA	NA	NA	91.0	U	87.3	U	78.0	U	80.2	U	81.4	U	87.4	U
Thallium	NA	NA	3	0.72	U	0.69	U	0.62	U	0.64	U	0.65	U	0.69	U
Vanadium	78	1100	NA	10.0	J	5.9	J	5.4	J	5.0	J	5.2	J	11.3	
Zinc	23000	110000	930	24.0		5.1	U	4.5	U	4.6	U	4.7	U	169	
MERCURY BY 7471B *(mg/kg)*															
Mercury	23	65	0.1	0.025		0.011	U	0.010	U	0.011	U	0.010	U	0.050	
CYANIDE BY 9012B *(mg/kg)*															
Cyanide, Total	47	680	20	0.062	U	0.065	U	0.070	U	0.074	U	0.060	U	0.086	J

Qualifiers:
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
B - Compound was found in the blank and sample.
* - LCS or LCSD is outside acceptance limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
Exceeds the NJDEP SRS

Note:
NA - No Standard
mg/kg - Milligrams per kilogram
NR - Not Analyzed
IGW - Impact to Groundwater

TABLE 2
Summary of Remedial Investigation Analytical Results - Soil
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-11/24.5-25.0**		**SB-13/10.5-11.0**		**SB-14/15.0-15.5**		**SB-15/15.0-15.5**		**SB-16/11.5-12.0**		**SB-17/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	24.5 - 25.0'		10.5 - 11.0'		15.0 - 15.5'		15.0 - 15.5'		11.5 - 12.0'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165588-3		460-165693-1		460-177480-1		460-177480-2		460-177480-3		460-177480-4	
Sampling Date				9/26/2018		9/27/2018		3/18/2019		3/18/2019		3/18/2019		3/18/2019	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
VO+15 BY 8260C *(mg/kg)*															
1,1,1-Trichloroethane	160000	NA	0.3	0.00023	U	0.00028	U	0.00023	U	0.00024	U	0.00023	U	0.00023	U
1,1,2,2-Tetrachloroethane	1	3	0.007	0.00021	U	0.00026	U	0.00021	U	0.00022	U	0.00021	U	0.00021	U
1,1,2-Trichloroethane	2	6	0.02	0.00017	U	0.00022	U	0.00017	U	0.00018	U	0.00017	U	0.00018	U
1,1-Dichloroethane	8	24	0.2	0.00020	U	0.00025	U	0.00020	U	0.00021	U	0.00020	U	0.00020	U
1,1-Dichloroethene	11	150	0.008	0.00022	U	0.00027	U	0.00022	U	0.00023	U	0.00022	U	0.00022	U
1,2,3-Trichloropropane	NA	NA	NA	0.00025	U	0.00031	U	0.00025	U	0.00027	U	0.00025	U	0.00026	U
1,2,4-Trimethylbenzene	NA	NA	NA	0.000092	U	0.00011	U	0.000092	U	0.000098	U	0.000091	U	0.000093	U
1,2-Dibromoethane	0.008	0.04	0.005	0.00018	U	0.00022	U	0.00018	U	0.00019	U	0.00017	U	0.00018	U
1,2-Dichloroethane	0.9	3	0.005	0.00029	U	0.00036	U	0.00029	U	0.00031	U	0.00029	U	0.00029	U
1,2-Dichloropropane	2	5	0.005	0.00041	U	0.00051	U	0.00041	U	0.00044	U	0.00041	U	0.00042	U
2-Butanone	3100	44000	0.9	0.0011	U	0.0041	J	0.0011	U	0.0012	U	0.0011	U	0.0011	U
2-Hexanone	NA	NA	NA	0.00076	U	0.00094	U	0.00076	U	0.00081	U	0.00076	U	0.00077	U
4-Methyl-2-pentanone	NA	NA	NA	0.00065	U	0.00080	U	0.00065	U	0.00069	U	0.00064	U	0.00066	U
Acetone	70000	NA	19	0.023		0.033		0.0037	U	0.0039	U	0.0037	U	0.0038	U
Benzene	2	5	0.005	0.00025	U	0.00031	U	0.00025	U	0.00027	U	0.00025	U	0.00026	U
Bromodichloromethane	1	3	0.005	0.00025	U	0.00031	U	0.00025	U	0.00027	U	0.00025	U	0.00025	U
Bromoform	81	280	0.03	0.00042	U	0.00051	U	0.00041	U	0.00044	U	0.00041	U	0.00042	U
Bromomethane	25	59	0.04	0.00046	U	0.00057	U	0.00046	U	0.00049	U	0.00046	U	0.00047	U
Carbon disulfide	7800	110000	6	0.00033	J	0.00032	U	0.00026	U	0.00028	U	0.00026	U	0.00026	U
Carbon tetrachloride	2	4	0.005	0.00018	U	0.00022	U	0.00018	U	0.00019	U	0.00018	U	0.00018	U
Chlorobenzene	510	7400	0.6	0.00017	U	0.00021	U	0.00017	U	0.00018	U	0.00017	U	0.00018	U
Chloroethane	220	1100	NA	0.00051	U	0.00063	U	0.00051	U	0.00054	U	0.00051	U	0.00052	U
Chloroform	0.6	2	0.4	0.00031	U	0.00039	U	0.00031	U	0.00033	U	0.00031	U	0.00032	U
Chloromethane	4	12	NA	0.00043	U	0.00053	U	0.00042	U	0.00045	U	0.00042	U	0.00043	U
cis-1,2-Dichloroethene	230	560	0.3	0.00015	U	0.00018	U	0.00015	U	0.00016	U	0.0068		0.00015	U
cis-1,3-Dichloropropene	NA	NA	0.005	0.00027	U	0.00033	U	0.00027	U	0.00028	U	0.00026	U	0.00027	U
Dibromochloromethane	3	8	0.005	0.00019	U	0.00023	U	0.00019	U	0.00020	U	0.00019	U	0.00019	U
Ethylbenzene	7800	110000	13	0.00020	U	0.00024	U	0.00019	U	0.00021	U	0.00019	U	0.00020	U
Methylene Chloride	46	230	0.01	0.00027	J B	0.00034	J	0.00016	U	0.00017	U	0.00016	U	0.00037	J
Styrene	90	260	3	0.00012	U	0.00015	U	0.00015	J	0.00013	U	0.00012	U	0.00012	U
TBA	1400	11000	0.3	0.0032	U	0.0040	U	0.0032	U	0.0034	U	0.0032	U	0.0033	U
Tetrachloroethene	43	1500	0.005	0.00014	U	0.00017	U	0.00014	U	0.00015	U	0.00014	U	0.00014	U
Toluene	6300	91000	7	0.00061	U	0.00076	U	0.00061	U	0.00065	U	0.00061	U	0.00062	U
trans-1,2-Dichloroethene	300	720	0.6	0.00024	U	0.00030	U	0.00024	U	0.00026	U	0.00024	U	0.00024	U
trans-1,3-Dichloropropene	NA	NA	0.005	0.00026	U	0.00032	U	0.00026	U	0.00028	U	0.00026	U	0.00026	U
Trichloroethene	3	10	0.01	0.00014	U	0.00023	J	0.00014	U	0.00034	J	**0.011**		0.00014	U
Vinyl chloride	0.7	2	0.005	0.00054	U	0.00066	U	0.00053	U	0.00057	U	0.00053	U	0.00054	U

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Sample Interval	Residential	Non-Residential	IGW Screening	24.5 - 25.0'		10.5 - 11.0'		15.0 - 15.5'		15.0 - 15.5'		11.5 - 12.0'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165588-3		460-165693-1		460-177480-1		460-177480-2		460-177480-3		460-177480-4	
Sampling Date				9/26/2018		9/27/2018		3/18/2019		3/18/2019		3/18/2019		3/18/2019	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
VO+15 BY 8260C *(mg/kg)* - Continued															
Xylenes, Total	12000	170000	19	0.00025	U	0.00031	U	0.00025	U	0.00026	U	0.00025	U	0.00025	U
Total Conc	NA	NA	NA	0.0236		0.03767		0.00015		0.00034		0.0178		0.00037	
Total Estimated Conc. (TICs)	NA	NA	NA	0.0		0.0		0.0		0.0		0.0		0.0	
BN+15 BY 8270D *(mg/kg)*															
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	0.0052	U	0.0059	U	0.0050	U	0.0050	U	0.0050	U	0.0048	U
1-Methylnaphthalene	NA	NA	NA	0.015	U	0.017	U	NR		NR		NR		NR	
2,2'-oxybis[1-chloropropane]	NA	NA	5	0.0072	U	0.0081	U *	0.0069	U	0.0070	U	0.0069	U	0.0066	U
2,3,4,6-Tetrachlorophenol	NA	NA	NA	0.027	U	0.030	U	0.026	U	0.026	U	0.026	U	0.025	U
2,4,5-Trichlorophenol	6100	68000	68	0.013	U	0.015	U	0.013	U	0.013	U	0.013	U	0.012	U
2,4,6-Trichlorophenol	19	74	0.2	0.020	U	0.023	U	0.019	U	0.019	U	0.019	U	0.019	U
2,4-Dichlorophenol	180	2100	0.2	0.0084	U	0.0095	U	0.0081	U	0.0081	U	0.0081	U	0.0078	U
2,4-Dimethylphenol	1200	14000	1	0.017	U	0.020	U	0.017	U	0.017	U	0.017	U	0.016	U
2,4-Dinitrophenol	120	1400	0.3	0.19	U	0.22	U	0.19	U	0.19	U	0.19	U	0.18	U
2,4-Dinitrotoluene	0.7	3	NA	0.020	U	0.023	U	0.019	U	0.019	U	0.019	U	0.019	U
2,6-Dinitrotoluene	0.7	3	NA	0.013	U	0.015	U	0.012	U	0.012	U	0.012	U	0.012	U
2-Chloronaphthalene	NA	NA	NA	0.018	U	0.021	U	0.018	U	0.018	U	0.018	U	0.017	U
2-Chlorophenol	310	2200	0.8	0.0055	U	0.0063	U	0.0054	U	0.0054	U	0.0054	U	0.0051	U
2-Methylnaphthalene	230	2400	8	0.0049	U	0.0056	U	0.0048	U	0.0048	U	0.0048	U	0.015	J
2-Methylphenol	310	3400	NA	0.0064	U	0.0072	U	0.0062	U	0.0062	U	0.0062	U	0.0059	U
2-Nitroaniline	39	23000	NA	0.015	U	0.017	U	0.014	U	0.014	U	0.014	U	0.014	U
2-Nitrophenol	NA	NA	NA	0.013	U	0.014	U	0.012	U	0.012	U	0.012	U	0.012	U
3,3'-Dichlorobenzidine	1	4	0.2	0.060	U *	0.068	U	0.058	U * F	0.058	U *	0.058	U *	0.055	U *
3-Nitroaniline	NA	NA	NA	0.021	U	0.024	U	0.021	U	0.021	U	0.021	U	0.020	U
4,6-Dinitro-2-methylphenol	6	68	0.3	0.064	U	0.073	U	0.062	U	0.062	U	0.062	U	0.060	U
4-Bromophenyl phenyl ether	NA	NA	NA	0.0051	U	0.0058	U	0.0050	U	0.0050	U	0.0050	U	0.0048	U
4-Chloro-3-methylphenol	NA	NA	NA	0.0066	U	0.0074	U	0.0064	U	0.0064	U	0.0064	U	0.0061	U
4-Chloroaniline	NA	NA	NA	0.028	U	0.031	U	0.027	U	0.027	U	0.027	U	0.026	U
4-Chlorophenyl phenyl ether	NA	NA	NA	0.0062	U	0.0071	U	0.0060	U	0.0061	U	0.0060	U	0.0058	U
4-Methylphenol	31	340	NA	0.0067	U	0.0076	U	0.0065	U	0.0065	U	0.0065	U	0.0063	U
4-Nitroaniline	NA	NA	NA	0.015	U	0.017	U	0.014	U	0.014	U	0.014	U	0.014	U
4-Nitrophenol	NA	NA	NA	0.065	U	0.073	U	0.062	U	0.063	U	0.063	U	0.060	U
Acenaphthene	3400	37000	110	0.029	U	0.033	U	0.028	U	0.028	U	0.028	U	0.027	U
Acenaphthylene	NA	300000	NA	0.0041	U	0.0046	U	0.0040	U	0.0040	U	0.0040	U	0.0038	U
Acetophenone	2	5	3	0.0064	U	0.0072	U	0.0062	U	0.0062	U	0.0062	U	0.0059	U
Anthracene	17000	30000	2400	0.0044	U	0.0050	U	0.0043	U	0.0043	U	0.0043	U	0.0041	U
Atrazine	210	2400	0.2	0.010	U	0.011	U	0.0097	U * F	0.0097	U *	0.0097	U *	0.0093	U *
Benzaldehyde	6100	68000	NA	0.017	U	0.020	U	0.017	U	0.017	U	0.017	U	0.016	U

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Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-11/24.5-25.0**		**SB-13/10.5-11.0**		**SB-14/15.0-15.5**		**SB-15/15.0-15.5**		**SB-16/11.5-12.0**		**SB-17/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	24.5 - 25.0'		10.5 - 11.0'		15.0 - 15.5'		15.0 - 15.5'		11.5 - 12.0'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165588-3		460-165693-1		460-177480-1		460-177480-2		460-177480-3		460-177480-4	
Sampling Date				9/26/2018		9/27/2018		3/18/2019		3/18/2019		3/18/2019		3/18/2019	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
BN+15 BY 8270D *(mg/kg)* - Continued															
Benzo[a]anthracene	5	17	0.8	0.014	U	0.016	U	0.013	U	0.013	U	0.013	U	0.11	
Benzo[a]pyrene	0.5	2	0.2	0.011	U	0.012	U	0.010	U	0.010	U	0.010	U	0.088	
Benzo[b]fluoranthene	5	17	2	0.010	U	0.012	U	0.0099	U	0.0099	U	0.0099	U	0.091	
Benzo[g,h,i]perylene	380000	30000	NA	0.012	U	0.013	U	0.011	U	0.011	U	0.011	U	0.058	J
Benzo[k]fluoranthene	45	170	25	0.0078	U	0.0088	U	0.0075	U	0.0075	U	0.0075	U	0.029	J
Bis(2-chloroethoxy)methane	NA	NA	NA	0.014	U	0.015	U	0.013	U	0.013	U	0.013	U	0.013	U
Bis(2-chloroethyl)ether	0.4	2	0.2	0.0048	U	0.0054	U	0.0046	U	0.0046	U	0.0046	U	0.0044	U
Bis(2-ethylhexyl) phthalate	35	140	1200	0.021	U	0.024	U	0.020	U	0.020	U	0.020	U	0.019	J
Butyl benzyl phthalate	1200	14000	230	0.019	U	0.021	U	0.018	U	0.018	U	0.018	U	0.017	U
Caprolactam	31000	340000	12	0.024	U	0.027	U	0.023	U F1	0.023	U	0.023	U	0.022	U
Carbazole	24	96	NA	0.0046	U	0.0052	U	0.0045	U	0.0045	U	0.0045	U	0.0043	U
Chrysene	450	1700	80	0.0067	U	0.0076	U	0.0065	U	0.0065	U	0.0065	U	0.13	J
Dibenz(a,h)anthracene	0.5	2	0.8	0.017	U	0.019	U	0.017	U	0.017	U	0.017	U	0.016	J
Dibenzofuran	NA	NA	NA	0.0056	U	0.0063	U	0.0054	U	0.0054	U	0.0054	U	0.0052	U
Diethyl phthalate	49000	550000	88	0.0057	U	0.0065	U	0.0056	U	0.0056	U	0.0056	U	0.0053	U
Dimethyl phthalate	NA	NA	NA	0.0048	U	0.0054	U	0.0046	U	0.0046	U	0.0046	U	0.0044	U
Di-n-butyl phthalate	6100	68000	760	0.070	U	0.079	U	0.068	U	0.068	U	0.068	U	0.065	U
Di-n-octyl phthalate	2400	27000	3300	0.021	U	0.024	U	0.020	U	0.020	U	0.020	U	0.019	U
Diphenyl	61	240	140	0.0053	U	0.0059	U	0.0051	U	0.0051	U	0.0051	U	0.0049	U
Fluoranthene	2300	24000	1300	0.0051	U	0.0058	U	0.0050	U	0.0050	U	0.0050	U	0.14	J
Fluorene	2300	24000	170	0.0054	U	0.0061	U	0.0052	U	0.0052	U	0.0052	U	0.034	J
Hexachlorobenzene	0.3	1	0.2	0.0058	U	0.0066	U	0.0056	U	0.0056	U	0.0056	U	0.0054	U
Hexachlorobutadiene	6	25	0.9	0.0084	U	0.0095	U	0.0082	U	0.0082	U	0.0082	U	0.0078	U
Hexachlorocyclopentadiene	45	110	320	0.035	U	0.039	U	0.034	U	0.034	U	0.034	U	0.032	U
Hexachloroethane	12	48	0.2	0.0061	U	0.0069	U	0.0059	U	0.0059	U	0.0059	U	0.0057	U
Indeno[1,2,3-cd]pyrene	5	17	7	0.015	U	0.018	U	0.015	U	0.015	U	0.015	U	0.051	
Isophorone	510	2000	0.2	0.010	U	0.012	U	0.010	U	0.010	U	0.010	U	0.0097	U
Naphthalene	6	17	25	0.015	J	0.0077	U	0.0066	U	0.0066	U	0.0066	U	0.0064	U
Nitrobenzene	5	14	0.2	0.0095	U	0.011	U	0.0092	U	0.0092	U	0.0092	U	0.0088	U
N-Nitrosodimethylamine	0.7	0.7	0.7	0.0056	U	0.0063	U	0.0054	U	0.0054	U	0.0054	U	0.0052	U
N-Nitrosodi-n-propylamine	0.2	0.3	0.2	0.0063	U	0.0071	U	0.0061	U	0.0061	U	0.0061	U	0.0058	U
N-Nitrosodiphenylamine	99	390	0.4	0.0076	U	0.0086	U	0.0073	U	0.0074	U	0.0073	U	0.0070	U
Pentachlorophenol	0.9	3	0.3	0.081	U	0.092	U	0.079	U	0.079	U	0.079	U	0.075	U
Phenanthrene	NA	300000	NA	0.0070	U	0.0079	U	0.0067	U	0.0068	U	0.0067	U	0.23	J
Phenol	18000	210000	8	0.0059	U	0.0066	U	0.0057	U	0.0057	U	0.0057	U	0.0054	U
Pyrene	1700	18000	840	0.0098	U	0.011	U	0.0095	U	0.0096	U	0.0095	U	0.27	J
Total Conc	NA	NA	NA	0.015		0.0		0.0		0.0		0.0		1.281	

TABLE 2
Summary of Remedial Investigation Analytical Results - Soil
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-11/24.5-25.0**		**SB-13/10.5-11.0**		**SB-14/15.0-15.5**		**SB-15/15.0-15.5**		**SB-16/11.5-12.0**		**SB-17/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	24.5 - 25.0'		10.5 - 11.0'		15.0 - 15.5'		15.0 - 15.5'		11.5 - 12.0'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165588-3		460-165693-1		460-177480-1		460-177480-2		460-177480-3		460-177480-4	
Sampling Date				9/26/2018		9/27/2018		3/18/2019		3/18/2019		3/18/2019		3/18/2019	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
BN+15 BY 8270D *(mg/kg)* - Continued															
Total Estimated Conc. (TICs)	NA	NA	NA	0.0		1.53		0.0		0.0		0.0		0.0	
PESTICIDES BY 8081B *(mg/kg)*															
4,4'-DDD	3	13	4	0.0014	U	0.0015	U	0.0013	U	0.0013	U	0.0013	U	0.0013	U
4,4'-DDE	2	9	18	0.00095	U	0.0070	J	0.00092	U	0.00092	U	0.00092	U	0.00088	U
4,4'-DDT	2	8	11	0.0015	U	0.0017	U	0.0014	U	0.0014	U	0.0014	U	0.0014	U
Aldrin	0.04	0.2	0.2	0.0012	U	0.0014	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U
alpha-BHC	0.1	0.5	0.002	0.00081	U	0.00092	U	0.00079	U	0.00079	U	0.00079	U	0.00076	U
beta-BHC	0.4	2	0.002	0.00090	U	0.0010	U	0.00087	U	0.00087	U	0.00087	U	0.00083	U
Chlordane	NA	NA	NA	0.019	U	0.022	U	0.019	U	0.019	U	0.019	U	0.018	U
delta-BHC	NA	NA	NA	0.00049	U	0.00056	U	0.00048	U	0.00048	U	0.00048	U	0.00046	U
Dieldrin	0.04	0.2	0.003	0.0010	U	0.0012	U	0.0010	U	0.0010	U	0.0010	U	0.00097	U
Endosulfan I	NA	NA	NA	0.0012	U	0.0014	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Endosulfan II	NA	NA	NA	0.0021	U	0.0023	U	0.0020	U	0.0020	U	0.0020	U	0.0019	U
Endosulfan sulfate	470	6800	2	0.0010	U	0.0011	U	0.00097	U	0.00098	U	0.00097	U	0.00093	U
Endrin	23	340	1	0.0011	U	0.0013	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
Endrin aldehyde	NA	NA	NA	0.0019	U	0.0021	U	0.0018	U	0.0018	U	0.0018	U	0.0018	U
Endrin ketone	NA	NA	NA	0.0016	U	0.0018	U	0.0015	U	0.0015	U	0.0015	U	0.0014	U
gamma-BHC (Lindane)	0.4	2	0.002	0.00074	U	0.00084	U	0.00072	U	0.00072	U	0.00072	U	0.00069	U
Heptachlor	0.1	0.7	0.5	0.00095	U	0.0011	U	0.00092	U	0.00092	U	0.00092	U	0.00088	U
Heptachlor epoxide	0.07	0.3	0.01	0.0012	U	0.0014	U	0.0012	U	0.0012	U	0.0012	U	0.0011	U
Methoxychlor	390	5700	160	0.0018	U	0.0021	U	0.0018	U	0.0018	U	0.0018	U	0.0017	U
Toxaphene	0.6	3	0.3	0.029	U	0.033	U	0.028	U	0.028	U	0.028	U	0.027	U
PCBs BY 8082A *(mg/kg)*															
Aroclor 1016	NA	NA	NA	0.011	U	0.012	U	0.010	U	0.010	U	0.010	U	0.0099	U
Aroclor 1221	NA	NA	NA	0.011	U	0.012	U	0.010	U	0.010	U	0.010	U	0.0099	U
Aroclor 1232	NA	NA	NA	0.011	U	0.012	U	0.010	U	0.010	U	0.010	U	0.0099	U
Aroclor 1242	NA	NA	NA	0.011	U	0.012	U	0.010	U	0.010	U	0.010	U	0.0099	U
Aroclor 1248	NA	NA	NA	0.011	U	0.012	U	0.010	U	0.010	U	0.010	U	0.0099	U
Aroclor 1254	NA	NA	NA	0.011	U	0.012	U	0.011	U	0.011	U	0.011	U	0.010	U
Aroclor 1260	NA	NA	NA	0.011	U	0.012	U	0.011	U	0.011	U	0.011	U	0.010	U
NJDEP EPH															
Total EPH (C9-C40)	5,100	54,000	NA	2.4	U	2.7	U	2.3	U	2.3	U	2.3	U	2.2	U
METALS BY 6010D *(mg/kg)*															
Aluminum	78000	NA	6000	4450		**10400**		**7920**		1980		4740		2110	
Antimony	31	450	6	0.94	U	0.97	U	1.1	U	1.2	U	1.2	U	1.2	U
Arsenic	19	19	19	0.95	U	1.1	J	3.1	J	1.3	U	1.3	U	1.3	U
Barium	16000	59000	2100	7.1	J	14.5	J	13.2	J	5.5	J	14.2	J	5.2	J

TABLE 2
Summary of Remedial Investigation Analytical Results - Soil
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	**SB-11/24.5-25.0**		**SB-13/10.5-11.0**		**SB-14/15.0-15.5**		**SB-15/15.0-15.5**		**SB-16/11.5-12.0**		**SB-17/19.5-20.0**	
Sample Interval	Residential	Non-Residential	IGW Screening	24.5 - 25.0'		10.5 - 11.0'		15.0 - 15.5'		15.0 - 15.5'		11.5 - 12.0'		19.5 - 20.0'	
Lab Sample ID	Sept_2017	Sept_2017	Nov_2013	460-165588-3		460-165693-1		460-177480-1		460-177480-2		460-177480-3		460-177480-4	
Sampling Date				9/26/2018		9/27/2018		3/18/2019		3/18/2019		3/18/2019		3/18/2019	
Matrix	*Soil*	*Soil*	*Soil*	*Soil*		*Soil*		*Soil*		*Soil*		*Soil*		*Soil*	
METALS BY 6010D *(mg/kg)* - Continued															
Beryllium	16	140	0.7	0.093	U	0.096	J	0.17	J	0.099	U	0.099	U	0.098	U
Cadmium	78	78	2	0.14	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
Calcium	NA	NA	NA	307	J	490	J	63.2	U	65.2	U	65.7	U	66.0	J
Chromium	NA	NA	NA	6.8		14.6		11.9		2.8		8.9		4.2	
Cobalt	1600	590	90	1.3	U	1.3	U	1.3	U	1.4	U	1.4	U	1.4	U
Copper	3100	45000	11000	3.4	J	7.2		6.1		2.9	U	3.8	J	2.9	U
Iron	NA	NA	NA	3390		6170		10600		691		1910		1190	
Lead	400	800	90	5.9		3.5		3.1		1.0	J	2.1	J	1.7	J
Magnesium	NA	NA	NA	61.2	U	69.7	J	62.6	U	64.5	U	65.0	U	64.2	U
Manganese	11000	5900	65	13.5		32.2		21.3		2.0	J	4.1		1.6	J
Nickel	1600	23000	48	2.5	J	6.3	J	3.9	J	1.6	J	4.6	J	1.4	J
Potassium	NA	NA	NA	79.7	J	124	J	94.8	J	68.8	U	71.2	J	68.5	U
Selenium	390	5700	11	2.5	U	2.6	U	2.6	U	2.6	U	2.7	U	2.6	U
Silver	390	5700	1	0.20	U	0.20	U	0.20	U	0.21	U	0.21	U	0.21	U
Sodium	NA	NA	NA	84.5	U	86.7	U	86.3	U	89.0	U	89.7	U	88.5	U
Thallium	NA	NA	3	0.67	U	0.69	U	0.69	U	0.71	U	0.71	U	0.70	U
Vanadium	78	1100	NA	6.3	J	17.0		40.3		2.7	J	7.9	J	5.8	J
Zinc	23000	110000	930	31.9		5.0	U	5.0	U	5.2	U	5.2	U	5.1	U
MERCURY BY 7471B *(mg/kg)*															
Mercury	23	65	0.1	0.011	U F1	0.013	U	0.014	J	0.011	U	0.011	U	0.010	U
CYANIDE BY 9012B *(mg/kg)*															
Cyanide, Total	47	680	20	0.070	U	0.14	J	0.12	U	0.11	U	0.12	U	0.11	U

Qualifiers:
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - Indicates the analyte was analyzed for but not detected.
B - Compound was found in the blank and sample.
* - LCS or LCSD is outside acceptance limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
Exceeds the NJDEP SRS

Note:
NA - No Standard
mg/kg - Milligrams per kilogram
NR - Not Analyzed
IGW - Impact to Groundwater

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**MW-1 (aka MW-C)**		**MW-2 (aka MW-B)**		**MW-3 (aka MW-A)**		**MW-4 (aka MW-D)**		**GWS-2/15-25**		**GWS-3/14-24**		**GWS-3/47-50**		**GWS-5/47-50**	
Screened Interval (bgs.)	Higher of PQLs	19 - 39'		19 - 39'		20 - 40'		19.5 - 39.5'		15' - 25'		14' - 24'		47' - 50'		47' - 50'	
Lab Sample ID	and GWQC	460-155405-1		460-155405-2		460-155405-3		460-155405-4		460-165468-1		460-165468-2		460-165739-1		460-165739-2	
Sampling Date	2019	5/3/2018		5/3/2018		5/3/2018		5/3/2018		9/25/2018		9/25/2018		9/27/2018		9/27/2018	
VOC BY 8260C (ug/l)																	
1,1,1-Trichloroethane	30	0.28	U	0.59	J	0.28	U	0.28	U	0.24	U	0.24	U	0.24	U	0.24	U
1,1,2,2-Tetrachloroethane	1	0.19	U	0.19	U	0.19	U	0.19	U	0.37	U	0.37	U	0.37	U	0.37	U
1,1,2-Trichloroethane	3	0.080	U	0.080	U	0.080	U	0.080	U	0.43	U	0.43	U	0.43	U	0.43	U
1,1-Dichloroethane	50	0.24	U	0.33	J	0.48	J	0.24	U	0.26	U	0.26	U	0.26	U	0.26	U
1,1-Dichloroethene	1	0.34	U	0.34	U	0.34	U	0.34	U	0.12	U	0.12	U	0.12	U	0.12	U
1,2,3-Trichlorobenzene	NA	0.35	U	0.35	U	0.35	U	0.35	U	0.36	U	0.36	U	0.36	U	0.36	U
1,2,4-Trichlorobenzene	9	0.27	U	0.27	U	0.27	U	0.27	U	0.37	U	0.37	U	0.37	U	0.37	U
1,2,4-Trimethylbenzene	NA	NR		NR		NR		NR		0.60	J	0.37	U	0.37	U	0.37	U
1,2-Dichlorobenzene	600	0.22	U	0.22	U	0.22	U	0.22	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloroethane	2	0.25	U	0.25	U	0.25	U	0.25	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloropropane	1	0.18	U	0.18	U	0.18	U	0.18	U	0.35	U	0.35	U	0.35	U	0.35	U
1,3-Dichlorobenzene	600	0.33	U	0.33	U	0.33	U	0.33	U	0.34	U	0.34	U	0.34	U	0.34	U
1,4-Dichlorobenzene	75	0.33	U	0.33	U	2.5		0.33	U	0.76	U	0.76	U	0.76	U	0.76	U
2-Butanone	300	2.2	U	2.2	U	2.2	U	2.2	U	1.9	U	1.9	U	1.9	U	1.9	U
2-Hexanone	40	0.72	U	0.72	U	0.72	U	0.72	U	2.9	U	2.9	U	2.9	U	2.9	U
4-Methyl-2-pentanone	NA	0.63	U	0.63	U	0.63	U	0.63	U	2.7	U	2.7	U	2.7	U	2.7	U
Acetone	6000	1.1	U	1.1	U	7.3		3.2	J	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	1	0.090	U	0.15	J	**1.4**		0.16	J	0.43	U	0.43	U	0.67	J	0.43	U
Bromochloromethane	NA	0.30	U	0.30	U	0.30	U	0.30	U	0.41	U	0.41	U	0.41	U	0.41	U
Bromodichloromethane	1	0.15	U	0.15	U	0.15	U	0.15	U	0.34	U	0.34	U	0.34	U	0.34	U
Bromoform	4	0.18	U	0.18	U	0.18	U	0.18	U	0.54	U *	0.54	U *	0.54	U	0.54	U
Bromomethane	10	0.18	U *	0.18	U *	0.18	U *	0.18	U	1.0	U *	1.0	U *	1.0	U	1.0	U
Carbon disulfide	700	0.22	U	0.22	U	0.22	U	0.22	U	0.16	U	0.16	U	0.16	U	0.16	U
Carbon tetrachloride	1	0.33	U	0.33	U	0.33	U	0.33	U	0.21	U	0.21	U	0.21	U	0.21	U
Chlorobenzene	50	0.24	U	0.24	U	2.4		0.56	J	1.0		1.8		0.94	J	0.38	U
Chloroethane	NA	0.37	U	0.37	U	3.0		0.37	U	0.32	U	0.32	U	0.32	U	0.32	U
Chloroform	70	0.82	J	0.22	U	0.22	U	0.22	U	0.33	U	0.33	U	0.33	U	0.33	U
Chloromethane	NA	0.22	U	0.22	U	0.22	U	0.22	U	0.14	U	0.14	U	0.14	U	0.14	U
cis-1,2-Dichloroethene	70	0.26	U	22		1.5		0.26	U	0.22	U	0.22	U	0.22	U	0.22	U
cis-1,3-Dichloropropene	NA	0.16	U	0.16	U	0.16	U	0.16	U	0.46	U	0.46	U	0.46	U	0.46	U
Cyclohexane	NA	0.26	U	0.26	U	0.26	U	0.26	U	0.32	U	0.32	U	0.32	U	0.32	U
Dibromochloromethane	1	0.22	U	0.22	U	0.22	U	0.22	U	0.28	U	0.28	U	0.28	U	0.28	U
Dichlorodifluoromethane	1000	0.14	U	0.14	U	0.14	U	0.14	U	0.12	U	0.12	U	0.12	U	0.12	U
Ethylbenzene	700	0.30	U	0.30	U	0.30	U	0.30	U	0.46	J	0.30	U	0.30	U	0.30	U
Freon TF	20000	0.34	U	0.34	U	0.34	U	0.34	U	0.31	U	0.31	U	0.31	U	0.31	U
Isopropylbenzene	700	0.32	U	0.32	U	0.32	U	0.32	U	0.34	U	0.43	J	0.34	U	0.34	U
Methyl acetate	7000	0.58	U	0.58	U	0.58	U	0.58	U	0.31	U	0.31	U	0.31	U	0.31	U
Methylcyclohexane	NA	0.22	U	0.22	U	0.22	U	0.22	U	0.26	U	0.26	U	0.26	U	0.26	U
Methylene Chloride	3	0.21	U	0.21	U	0.21	U	0.21	U	0.32	U	0.32	U	0.32	U	0.32	U

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**MW-1 (aka MW-C)**		**MW-2 (aka MW-B)**		**MW-3 (aka MW-A)**		**MW-4 (aka MW-D)**		**GWS-2/15-25**		**GWS-3/14-24**		**GWS-3/47-50**		**GWS-5/47-50**	
Screened Interval (bgs.)	Higher of PQLs	19 - 39'		19 - 39'		20 - 40'		19.5 - 39.5'		15' - 25'		14' - 24'		47' - 50'		47' - 50'	
Lab Sample ID	and GWQC	460-155405-1		460-155405-2		460-155405-3		460-155405-4		460-165468-1		460-165468-2		460-165739-1		460-165739-2	
Sampling Date	2019	5/3/2018		5/3/2018		5/3/2018		5/3/2018		9/25/2018		9/25/2018		9/27/2018		9/27/2018	
VOC BY 8260C (ug/l) - Continued																	
MTBE	70	0.13	U	0.13	U	3.1		0.13	U	0.47	U	0.47	U	0.47	U	0.47	U
Naphthalene	300	0.26	U	0.26	U	0.26	U	0.26	U	7.4		0.41	U	0.41	U	0.41	U
Styrene	100	0.17	U	0.17	U	0.17	U	0.17	U	0.42	U	0.42	U	0.42	U	0.42	U
TBA	100	1.2	U	1.2	U	2.7	J	1.2	U	8.3	U	8.3	U	8.3	U	8.3	U
Tetrachloroethene	1	0.12	U	0.12	U	0.12	U	0.12	U	0.25	U	0.25	U	0.25	U	0.25	U
Toluene	600	0.25	U	0.25	U	0.25	U	0.25	U	0.66	J	0.38	U	0.38	U	0.38	U
trans-1,2-Dichloroethene	100	0.18	U	0.40	J	0.20	J	0.18	U	0.24	U	0.24	U	0.24	U	0.24	U
trans-1,3-Dichloropropene	NA	0.19	U	0.19	U	0.19	U	0.19	U	0.49	U	0.49	U	0.49	U	0.49	U
Trichloroethene	1	0.22	U	**30**		0.22	U	0.22	U	0.31	U	0.31	U	0.31	U	0.31	U
Trichlorofluoromethane	2000	0.15	U	0.15	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U	0.14	U
Vinyl chloride	1	0.060	U	**20**		**15**		0.060	U	0.17	U	0.17	U	0.17	U	0.17	U
Xylenes, Total	1000	0.28	U	0.28	U	0.28	U	0.28	U	1.6	J	0.65	U	0.65	U	0.65	U
Total Conc	NA	0.82		73.47		39.58		3.92		11.72		2.23		1.61		0.0	
Total Estimated Conc. (TICs)	500	0.0		0.0		5.9		0.0		0.0		0.0		0.0		0.0	
VO SIM BY 8260C SIM (ug/l)																	
1,2,3-Trichloropropane	0.03	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U
1,2-Dibromo-3-Chloropropane	0.02	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
1,4-Dioxane	0.4	NR		NR		NR		NR		NR		NR		NR		NR	
Ethylene Dibromide	0.03	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U *	0.0010	U *	0.0010	U	0.0010	U
Total Conc	NA	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
BN BY 8270D (ug/l)																	
1,2,4,5-Tetrachlorobenzene	NA	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
1,2,4-Trichlorobenzene	9	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
1,2-Dichlorobenzene	600	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
1,3-Dichlorobenzene	600	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U *	2.0	U *	2.0	U	2.0	U
1,4-Dichlorobenzene	75	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U *	1.3	U *	1.3	U	1.3	U
1-Methylnaphthalene	NA	NR		NR		NR		NR		1.2	J	1.1	U	1.1	U	1.1	U
2,3,4,6-Tetrachlorophenol	200	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
2,4,5-Trichlorophenol	700	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
2,4,6-Trichlorophenol	20	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
2,4-Dichlorophenol	20	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
2,4-Dimethylphenol	100	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
2,4-Dinitrophenol	40	14	U	14	U	14	U	14	U	14	U	14	U	14	U	14	U
2,4-Dinitrotoluene	NA	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2,6-Dinitrotoluene	NA	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U	0.39	U
2-Chloronaphthalene	600	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
2-Chlorophenol	40	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
2-Methylnaphthalene	30	1.1	U	1.1	U	1.1	U	1.1	U	1.2	J	1.1	U	1.1	U	1.1	U
2-Methylphenol	50	0.26	U *	0.26	U *	0.26	U *	0.26	U *	0.26	U *	0.26	U *	0.26	U	0.26	U

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**MW-1 (aka MW-C)**		**MW-2 (aka MW-B)**		**MW-3 (aka MW-A)**		**MW-4 (aka MW-D)**		**GWS-2/15-25**		**GWS-3/14-24**		**GWS-3/47-50**		**GWS-5/47-50**	
Screened Interval (bgs.)	Higher of PQLs	19 - 39'		19 - 39'		20 - 40'		19.5 - 39.5'		15' - 25'		14' - 24'		47' - 50'		47' - 50'	
Lab Sample ID	and GWQC	460-155405-1		460-155405-2		460-155405-3		460-155405-4		460-165468-1		460-165468-2		460-165739-1		460-165739-2	
Sampling Date	2019	5/3/2018		5/3/2018		5/3/2018		5/3/2018		9/25/2018		9/25/2018		9/27/2018		9/27/2018	
BN BY 8270D (ug/l) - Continued																	
2-Nitroaniline	NA	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
2-Nitrophenol	NA	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
3,3'-Dichlorobenzidine	30	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
3-Nitroaniline	NA	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U
4,6-Dinitro-2-methylphenol	0.7	13	U	13	U	13	U	13	U	13	U	13	U	13	U	13	U
4-Bromophenyl phenyl ether	NA	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
4-Chloro-3-methylphenol	NA	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U	0.58	U
4-Chlorophenyl phenyl ether	NA	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
4-Methylphenol	50	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
4-Nitroaniline	NA	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
4-Nitrophenol	NA	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U
Acenaphthene	400	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Acenaphthylene	NA	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
Anthracene	2000	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U
Benzidine	20	5.1	U *	5.1	U *	5.1	U *	5.1	U *	5.1	U	5.1	U	5.1	U	5.1	U
Benzo[g,h,i]perylene	NA	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U
Benzo[k]fluoranthene	0.5	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U
bis (2-chloroisopropyl) ether	NA	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U
Bis(2-chloroethoxy)methane	NA	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
Bis(2-ethylhexyl) phthalate	3	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Butyl benzyl phthalate	100	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
Carbazole	NA	0.68	U	0.68	U	0.68	U	0.68	U	0.68	U	0.68	U	0.68	U	0.68	U
Chrysene	5	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U
Dibenzofuran	NA	1.1	U	1.1	U	1.1	U	1.1	U	1.4	J	1.1	U	1.1	U	1.1	U
Diethyl phthalate	6000	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
Dimethyl phthalate	NA	0.77	U	0.77	U	0.77	U	0.77	U	0.77	U	0.77	U	0.77	U	0.77	U
Di-n-butyl phthalate	700	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U
Di-n-octyl phthalate	100	4.8	U	4.8	U	4.8	U	4.8	U	4.8	U *	4.8	U *	4.8	U	4.8	U
Fluoranthene	300	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U	0.84	U
Fluorene	300	0.91	U	0.91	U	0.91	U	0.91	U	2.6	J	0.91	U	0.91	U	0.91	U
Hexachlorobutadiene	1	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U	0.78	U
Hexachlorocyclopentadiene	40	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U
Hexachloroethane	7	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Isophorone	40	0.80	U	0.80	U	0.80	U	0.80	U	0.80	U	0.80	U	0.80	U	0.80	U
Naphthalene	300	1.1	U	1.1	U	1.1	U	1.1	U	2.6	J	1.1	U	1.1	U	1.1	U
Nitrobenzene	6	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U	0.57	U
N-Nitrosodi-n-propylamine	10	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
N-Nitrosodiphenylamine	10	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U

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Client ID	Class II-A	**MW-1 (aka MW-C)**		**MW-2 (aka MW-B)**		**MW-3 (aka MW-A)**		**MW-4 (aka MW-D)**		**GWS-2/15-25**		**GWS-3/14-24**		**GWS-3/47-50**		**GWS-5/47-50**	
Screened Interval (bgs.)	Higher of PQLs	19 - 39'		19 - 39'		20 - 40'		19.5 - 39.5'		15' - 25'		14' - 24'		47' - 50'		47' - 50'	
Lab Sample ID	and GWQC	460-155405-1		460-155405-2		460-155405-3		460-155405-4		460-165468-1		460-165468-2		460-165739-1		460-165739-2	
Sampling Date	2019	5/3/2018		5/3/2018		5/3/2018		5/3/2018		9/25/2018		9/25/2018		9/27/2018		9/27/2018	
BN BY 8270D (ug/l) - Continued																	
Phenanthrene	NA	0.58	U	0.58	U	0.58	U	0.58	U	2.5	J	0.58	U	0.58	U	0.58	U
Phenol	2000	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U	0.29	U
Pyrene	200	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
Total Conc	NA	0.0		0.0		0.0		0.0		11.5		0.0		0.0		0.0	
Total Estimated Conc. (TICs)	500	0.0		0.0		11.0		0.0		7.6		0.0		8.4		0.0	
BN SIM BY 8270D SIM (ug/l)																	
1,4-Dioxane	0.4	0.17	U	0.17	U	**1.5**		0.17	U	**1.5**	*	0.17	U *	0.17	U *	0.17	U *
Benzo[a]anthracene	0.1	0.016	U	0.016	U	0.016	U	0.016	U	0.016	U	0.016	U	0.016	U	0.016	U
Benzo[a]pyrene	0.1	0.022	U	0.022	U	0.022	U	0.022	U	0.022	U	0.025	J	0.022	U	0.022	U
Benzo[b]fluoranthene	0.2	0.024	U	0.024	U	0.024	U	0.024	U	0.024	U	0.024	U	0.024	U	0.024	U
Bis(2-chloroethyl)ether	7	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U
Dibenz(a,h)anthracene	0.3	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U	0.011	U
Hexachlorobenzene	0.02	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U	0.013	U *	0.013	U *
Indeno[1,2,3-cd]pyrene	0.2	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
N-Nitrosodimethylamine	0.8	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Pentachlorophenol	0.3	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U *	0.15	U *
Total Conc	NA	0.0		0.0		1.5		0.0		1.5		0.025		0.0		0.0	
PESTICIDES BY 8081B (ug/l)																	
4,4'-DDD	0.1	0.0060	U	0.0060	U	0.0060	U	0.0060	U	0.0060	U	0.0060	U	NR		NR	
4,4'-DDE	0.1	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U	NR		NR	
4,4'-DDT	0.1	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	NR		NR	
Aldrin	0.04	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	NR		NR	
alpha-BHC	0.02	0.0070	U	0.0070	U	0.0070	U	0.0070	U	0.0070	U	0.0070	U	NR		NR	
beta-BHC	0.04	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	NR		NR	
Chlordane	NA	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	NR		NR	
cis-Chlordane	NA	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U	NR		NR	
delta-BHC	NA	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	NR		NR	
Dieldrin	0.03	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	NR		NR	
Endosulfan I	40	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U	NR		NR	
Endosulfan II	40	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	NR		NR	
Endosulfan sulfate	40	0.0060	U	0.0060	U	0.0060	U	0.0060	U	0.0060	U	0.0060	U	NR		NR	
Endrin	2	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	NR		NR	
Endrin aldehyde	NA	0.0080	U	0.0080	U	0.0080	U	0.0080	U	0.0080	U	0.0080	U	NR		NR	
Endrin ketone	NA	0.0080	U	0.0080	U	0.0080	U	0.0080	U	0.0080	U	0.0080	U	NR		NR	
gamma-BHC (Lindane)	0.03	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U	NR		NR	
Heptachlor	0.05	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	NR		NR	
Heptachlor epoxide	0.2	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	NR		NR	
Methoxychlor	40	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	NR		NR	
Toxaphene	2	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	NR		NR	
trans-Chlordane	NA	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**MW-1 (aka MW-C)**		**MW-2 (aka MW-B)**		**MW-3 (aka MW-A)**		**MW-4 (aka MW-D)**		**GWS-2/15-25**		**GWS-3/14-24**		**GWS-3/47-50**		**GWS-5/47-50**	
Screened Interval (bgs.)	Higher of PQLs	19 - 39'		19 - 39'		20 - 40'		19.5 - 39.5'		15' - 25'		14' - 24'		47' - 50'		47' - 50'	
Lab Sample ID	and GWQC	460-155405-1		460-155405-2		460-155405-3		460-155405-4		460-165468-1		460-165468-2		460-165739-1		460-165739-2	
Sampling Date	2019	5/3/2018		5/3/2018		5/3/2018		5/3/2018		9/25/2018		9/25/2018		9/27/2018		9/27/2018	
PCBs BY 8082A (ug/l)																	
Aroclor 1016	NA	0.10	U	0.10	U	0.10	U	0.10	U	0.12	U	0.12	U	NR		NR	
Aroclor 1221	NA	0.10	U	0.10	U	0.10	U	0.10	U	0.12	U	0.12	U	NR		NR	
Aroclor 1232	NA	0.10	U	0.10	U	0.10	U	0.10	U	0.12	U	0.12	U	NR		NR	
Aroclor 1242	NA	0.10	U	0.10	U	0.10	U	0.10	U	0.12	U	0.12	U	NR		NR	
Aroclor 1248	NA	0.10	U	0.10	U	0.10	U	0.10	U	0.12	U	0.12	U	NR		NR	
Aroclor 1254	NA	0.099	U	0.099	U	0.099	U	0.099	U	0.11	U	0.11	U	NR		NR	
Aroclor 1260	NA	0.099	U	0.099	U	0.099	U	0.099	U	0.11	U	0.11	U	NR		NR	
Aroclor 1262	NA	0.099	U	0.099	U	0.099	U	0.099	U	0.11	U	0.11	U	NR		NR	
Aroclor 1268	NA	0.099	U	0.099	U	0.099	U	0.099	U	0.11	U	0.11	U	NR		NR	
METALS BY 6020B (ug/l)																	
Aluminum	200	**1320**		97.9		15.0	U	**1490**		35.7	J	**1120**		NR		NR	
Antimony	6	1.1	J	1.5	J	0.93	J	0.94	J	0.62	U	0.62	U	NR		NR	
Arsenic	3	**9.8**		1.2	J	**10.7**		**3.3**		**4.0**		**32.1**		NR		NR	
Barium	6000	61.5		124		606		117		442		357		NR		NR	
Beryllium	1	0.79	J	0.26	U	0.26	U	0.26	J	0.25	U	0.25	U	NR		NR	
Cadmium	4	0.61	U	0.90	J	0.61	U	0.61	U	0.81	U	0.81	U	NR		NR	
Calcium	NA	115000		75800		102000		79000		54000		100000		NR		NR	
Chromium	70	1.3	U	1.3	U	1.3	U	1.3	U	2.3	U	5.1		NR		NR	
Cobalt	100	9.6		1.3	U	1.3	U	9.8		1.6	U	1.6	U	NR		NR	
Copper	1300	4.5		14.3		1.9	U	2.0	J	2.0	U	5.8		NR		NR	
Iron	300	138		**1900**		**42900**		**2620**		**18600**		**44000**		NR		NR	
Lead	5	0.79	J	1.0	J	2.6		3.5		0.55	U	4.5		NR		NR	
Magnesium	NA	34500		11200		23300		21300		6600		10900		NR		NR	
Manganese	50	**193**		**68.3**		**222**		**426**		**147**		**212**		NR		NR	
Nickel	100	6.5		9.5		1.7	J	3.4	J	2.4	U	2.4	U	NR		NR	
Potassium	NA	33100		8380		35600		3350		3350		7480		NR		NR	
Selenium	40	1.2	J	0.69	U	0.69	U	0.69	U	5.4	U	5.4	U	NR		NR	
Silver	40	1.4	U	1.4	U	1.4	U	1.4	U	0.59	U	0.59	U	NR		NR	
Sodium	50000	21500		12100		**526000**		7620		6870		6360		NR		NR	
Thallium	2	0.24	U	0.24	U	0.24	U	0.24	U	0.16	U	0.16	U	NR		NR	
Vanadium	NA	1.2	U	1.2	J	3.5	J	1.2	U	1.1	U	4.7		NR		NR	
Zinc	2000	40.1		203		5.4	U	7.9	J	11.1	U	17.4		NR		NR	
MERCURY BY 7470A (ug/l)																	
Mercury	2	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	NR		NR	
CYANIDE BY 9012B (ug/l)																	
Cyanide, Total	NA	2.0	U *	2.2	J	2.0	U	2.0	U *	2.0	U	4.0	J	NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**MW-1 (aka MW-C)**		**MW-2 (aka MW-B)**		**MW-3 (aka MW-A)**		**MW-4 (aka MW-D)**		**GWS-2/15-25**		**GWS-3/14-24**		**GWS-3/47-50**		**GWS-5/47-50**	
Screened Interval (bgs.)	Higher of PQLs	19 - 39'		19 - 39'		20 - 40'		19.5 - 39.5'		15' - 25'		14' - 24'		47' - 50'		47' - 50'	
Lab Sample ID	and GWQC	460-155405-1		460-155405-2		460-155405-3		460-155405-4		460-165468-1		460-165468-2		460-165739-1		460-165739-2	
Sampling Date	2019	5/3/2018		5/3/2018		5/3/2018		5/3/2018		9/25/2018		9/25/2018		9/27/2018		9/27/2018	
AMMONIA BY 350.1 (mg/l)																	
Ammonia	3	0.075	J	1.7		**28.9**		0.33		1.8		**12.1**		NR		NR	
TDS BY SM 2540C (mg/l)																	
Total Dissolved Solids	500	**910**		358		**1890**		**594**		331		492		NR		NR	
NITRATE BY 300.0 (mg/l)																	
Nitrate as N	10	**47.0**	H D	0.28		0.20		**32.6**	H D	0.11		0.016	U	NR		NR	
WATER BY 537 (MODIFIED) (ng/l)		**3/18/2019**		**3/18/2019**		**3/18/2019**		**3/18/2019**									
Perfluorooctanesulfonic acid (PFOS)	10	7.15		**231**		**21.1**		3.41		NR		NR		NR		NR	
Perfluorooctanoic acid (PFOA)	10	**14.0**		**27.6**		**20.7**		**11.9**		NR		NR		NR		NR	

Qualifiers:
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - LCS or LCSD is outside acceptance limits.
* - RPD of the LCS and LCSD exceeds the control limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Note:
NA - No Standard
NR - Not Analyzed
GW - Groundwater
ug/l - micrograms per liter
PQL - Practical Quantitation Level
TICS - Tentatively Identified Compounds
GWQC - Groundwater Quality Criteria
Exceeds the NJDEP GWQC

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-6/20-30**		**GWS-9/15-25**		**GWS-10/15-25**		**GWS-14/0-19**		**GWS-16/47-50**		**GWS-17/0-19**		**GWS-18/47-50**		**GWS-19/36-40**	
Screened Interval (bgs.)	Higher of PQLs	20' - 30'		15' - 25'		15' - 25'		0' - 19'		47' - 50'		0' - 19'		47' - 50'		36 - 40'	
Lab Sample ID	and GWQC	460-165468-3		460-165591-1		460-165591-2		320-48473-8		460-177578-2		320-48473-3		460-177578-1		460-177578-3	
Sampling Date	2019	9/25/2018		9/26/2018		9/26/2018		3/18/2019		3/19/2019		3/18/2019		3/19/2019		3/19/2019	
VOC BY 8260C (ug/l)																	
1,1,1-Trichloroethane	30	0.24	U	0.24	U	0.24	U	NR		0.24	U	NR		0.24	U	0.24	U
1,1,2,2-Tetrachloroethane	1	0.37	U	0.37	U	0.37	U	NR		0.37	U	NR		0.37	U	0.37	U
1,1,2-Trichloroethane	3	0.43	U	0.43	U	0.43	U	NR		0.43	U	NR		0.43	U	0.43	U
1,1-Dichloroethane	50	0.26	U	0.26	U	0.26	U	NR		0.26	U	NR		0.26	U	0.26	U
1,1-Dichloroethene	1	0.12	U	0.12	U	0.12	U	NR		0.12	U	NR		0.12	U	0.12	U
1,2,3-Trichlorobenzene	NA	0.36	U	0.36	U	0.36	U	NR		0.36	U	NR		0.36	U	0.36	U
1,2,4-Trichlorobenzene	9	0.37	U	0.37	U	0.37	U	NR		0.37	U	NR		0.37	U	0.37	U
1,2,4-Trimethylbenzene	NA	0.37	U	0.37	U	0.37	U	NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	0.43	U	0.50	J	0.43	U	NR		0.43	U	NR		0.43	U	0.43	U
1,2-Dichloroethane	2	0.43	U	0.43	U	0.43	U	NR		0.43	U	NR		0.43	U	0.43	U
1,2-Dichloropropane	1	0.35	U	0.35	U	0.35	U	NR		0.35	U	NR		0.35	U	0.35	U
1,3-Dichlorobenzene	600	0.34	U	0.34	U	0.34	U	NR		0.34	U	NR		0.34	U	0.34	U
1,4-Dichlorobenzene	75	5.0		2.0		1.2		NR		0.76	U	NR		0.76	U	0.76	U
2-Butanone	300	1.9	U	1.9	U	1.9	U	NR		1.9	U	NR		1.9	U	1.9	U
2-Hexanone	40	2.9	U	2.9	U	2.9	U	NR		2.9	U	NR		2.9	U	2.9	U
4-Methyl-2-pentanone	NA	2.7	U	2.7	U	2.7	U	NR		2.7	U	NR		2.7	U	2.7	U
Acetone	6000	5.5		5.0	U	5.0	U	NR		5.0	U	NR		5.0	U	5.0	U
Benzene	1	**3.2**		0.43	U	0.43	U	NR		0.59	J	NR		0.43	U	0.43	U
Bromochloromethane	NA	0.41	U	0.41	U	0.41	U	NR		0.41	U	NR		0.41	U	0.41	U
Bromodichloromethane	1	0.34	U	0.34	U	0.34	U	NR		0.34	U	NR		0.34	U	0.34	U
Bromoform	4	0.54	U *	0.54	U	0.54	U	NR		0.54	U	NR		0.54	U	0.54	U
Bromomethane	10	1.0	U *	1.0	U	1.0	U	NR		1.0	U	NR		1.0	U	1.0	U
Carbon disulfide	700	0.16	U	0.20	J	0.16	U	NR		0.16	U	NR		0.16	U	0.16	U
Carbon tetrachloride	1	0.21	U	0.21	U	0.21	U	NR		0.21	U	NR		0.21	U	0.21	U
Chlorobenzene	50	7.2		6.4		3.4		NR		1.5		NR		0.38	U	0.38	U
Chloroethane	NA	0.38	J	0.32	U	0.32	U	NR		0.32	U	NR		0.32	U	0.32	U
Chloroform	70	0.33	U	0.33	U	0.33	U	NR		0.33	U	NR		0.33	U	0.33	U
Chloromethane	NA	0.14	U	0.14	U	0.14	U	NR		0.14	U	NR		0.14	U	0.14	U
cis-1,2-Dichloroethene	70	2.1		0.22	U	0.22	U	NR		2.8		NR		5.6		0.22	U
cis-1,3-Dichloropropene	NA	0.46	U	0.46	U	0.46	U	NR		0.46	U	NR		0.46	U	0.46	U
Cyclohexane	NA	0.32	U	0.32	U	0.32	U	NR		0.32	U *	NR		0.32	U *	0.32	U *
Dibromochloromethane	1	0.28	U	0.28	U	0.28	U	NR		0.28	U	NR		0.28	U	0.28	U
Dichlorodifluoromethane	1000	0.12	U	0.12	U	0.12	U	NR		0.12	U	NR		0.12	U	0.12	U
Ethylbenzene	700	0.30	U	0.30	U	0.30	U	NR		0.30	U	NR		0.30	U	0.30	U
Freon TF	20000	0.31	U	0.31	U	0.31	U	NR		0.31	U *	NR		0.31	U *	0.31	U *
Isopropylbenzene	700	0.50	J	1.3		0.62	J	NR		0.34	U	NR		0.34	U	0.34	U
Methyl acetate	7000	0.31	U	0.31	U	0.31	U	NR		0.31	U	NR		0.31	U	0.31	U
Methylcyclohexane	NA	0.26	U	0.59	J	0.26	U	NR		0.26	U *	NR		0.26	U *	0.26	U *
Methylene Chloride	3	0.32	U	0.32	U	0.32	U	NR		0.32	U	NR		0.32	U	0.32	U

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Client ID	Class II-A	**GWS-6/20-30**		**GWS-9/15-25**		**GWS-10/15-25**		**GWS-14/0-19**		**GWS-16/47-50**		**GWS-17/0-19**		**GWS-18/47-50**		**GWS-19/36-40**	
Screened Interval (bgs.)	Higher of PQLs	20' - 30'		15' - 25'		15' - 25'		0' - 19'		47' - 50'		0' - 19'		47' - 50'		36 - 40'	
Lab Sample ID	and GWQC	460-165468-3		460-165591-1		460-165591-2		320-48473-8		460-177578-2		320-48473-3		460-177578-1		460-177578-3	
Sampling Date	2019	9/25/2018		9/26/2018		9/26/2018		3/18/2019		3/19/2019		3/18/2019		3/19/2019		3/19/2019	
VOC BY 8260C (ug/l) - Continued																	
MTBE	70	2.6		0.47	U	0.47	U	NR		0.47	U	NR		0.47	U	0.47	U
Naphthalene	300	0.67	J	1.1		0.41	U	NR		NR		NR		NR		NR	
Styrene	100	0.42	U	0.42	U	0.42	U	NR		0.42	U	NR		0.42	U	0.42	U
TBA	100	23		8.3	U	8.3	U	NR		8.3	U	NR		8.3	U	8.3	U
Tetrachloroethene	1	0.25	U	0.25	U	0.25	U	NR		0.25	U	NR		0.25	U	0.25	U
Toluene	600	0.38	U	0.38	U	0.38	U	NR		0.38	U	NR		0.38	U	0.38	U
trans-1,2-Dichloroethene	100	0.24	U	0.24	U	0.24	U	NR		0.24	U	NR		0.24	U	0.24	U
trans-1,3-Dichloropropene	NA	0.49	U	0.49	U	0.49	U	NR		0.49	U	NR		0.49	U	0.49	U
Trichloroethene	1	0.31	U	0.31	U	0.31	U	NR		**2.6**		NR		0.31	U	0.31	U
Trichlorofluoromethane	2000	0.14	U	0.14	U	0.14	U	NR		0.14	U	NR		0.14	U	0.14	U
Vinyl chloride	1	**2.0**		0.17	U	0.17	U	NR		0.17	U	NR		**3.8**		0.17	U
Xylenes, Total	1000	0.65	U	1.2	J	0.65	U	NR		0.30	U	NR		0.30	U	0.30	U
Total Conc	NA	52.15		13.29		5.22		NR		7.49		NR		9.4		0.0	
Total Estimated Conc. (TICs)	500	0.0		0.0		0.0		NR		0.0		NR		0.0		0.0	
VO SIM BY 8260C SIM (ug/l)																	
1,2,3-Trichloropropane	0.03	0.0030	U	0.0030	U	0.0030	U	NR		0.0030	U	NR		0.0030	U	0.0030	U
1,2-Dibromo-3-Chloropropane	0.02	0.0040	U	0.0040	U	0.0040	U	NR		0.0040	U	NR		0.0040	U	0.0040	U
1,4-Dioxane	0.4	NR		NR		NR		NR		0.20	U	NR		**0.88**		0.20	U
Ethylene Dibromide	0.03	0.0010	U *	0.0010	U *	0.0010	U *	NR		0.0010	U	NR		0.0010	U	0.0010	U
Total Conc	NA	0.0		0.0		0.0		NR		0.0		NR		0.88		0.0	
BN BY 8270D (ug/l)																	
1,2,4,5-Tetrachlorobenzene	NA	1.2	U	1.2	U	1.2	U	NR		NR		NR		NR		NR	
1,2,4-Trichlorobenzene	9	1.3	U	1.3	U	1.3	U	NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	1.3	U	1.3	U *	1.3	U *	NR		NR		NR		NR		NR	
1,3-Dichlorobenzene	600	2.0	U *	2.0	U *	2.0	U *	NR		NR		NR		NR		NR	
1,4-Dichlorobenzene	75	2.4	J *	1.3	U *	1.3	U *	NR		NR		NR		NR		NR	
1-Methylnaphthalene	NA	1.1	U	1.1	U	1.1	U	NR		NR		NR		NR		NR	
2,3,4,6-Tetrachlorophenol	200	0.75	U	0.75	U	0.75	U	NR		NR		NR		NR		NR	
2,4,5-Trichlorophenol	700	0.28	U	0.28	U	0.28	U	NR		NR		NR		NR		NR	
2,4,6-Trichlorophenol	20	0.30	U	0.30	U	0.30	U	NR		NR		NR		NR		NR	
2,4-Dichlorophenol	20	0.42	U	0.42	U	0.42	U	NR		NR		NR		NR		NR	
2,4-Dimethylphenol	100	0.24	U	0.24	U	0.24	U	NR		NR		NR		NR		NR	
2,4-Dinitrophenol	40	14	U	14	U	14	U	NR		NR		NR		NR		NR	
2,4-Dinitrotoluene	NA	1.0	U	1.0	U	1.0	U	NR		NR		NR		NR		NR	
2,6-Dinitrotoluene	NA	0.39	U	0.39	U	0.39	U	NR		NR		NR		NR		NR	
2-Chloronaphthalene	600	1.2	U	1.2	U	1.2	U	NR		NR		NR		NR		NR	
2-Chlorophenol	40	0.38	U	0.38	U	0.38	U	NR		NR		NR		NR		NR	
2-Methylnaphthalene	30	1.1	U	1.1	U	1.1	U	NR		NR		NR		NR		NR	
2-Methylphenol	50	0.26	U *	0.26	U	0.26	U	NR		NR		NR		NR		NR	

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Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-6/20-30**		**GWS-9/15-25**		**GWS-10/15-25**		**GWS-14/0-19**		**GWS-16/47-50**		**GWS-17/0-19**		**GWS-18/47-50**		**GWS-19/36-40**	
Screened Interval (bgs.)	Higher of PQLs	20' - 30'		15' - 25'		15' - 25'		0' - 19'		47' - 50'		0' - 19'		47' - 50'		36 - 40'	
Lab Sample ID	and GWQC	460-165468-3		460-165591-1		460-165591-2		320-48473-8		460-177578-2		320-48473-3		460-177578-1		460-177578-3	
Sampling Date	2019	9/25/2018		9/26/2018		9/26/2018		3/18/2019		3/19/2019		3/18/2019		3/19/2019		3/19/2019	
BN BY 8270D (ug/l) - Continued																	
2-Nitroaniline	NA	0.47	U	0.47	U	0.47	U	NR		NR		NR		NR		NR	
2-Nitrophenol	NA	0.75	U	0.75	U	0.75	U	NR		NR		NR		NR		NR	
3,3'-Dichlorobenzidine	30	1.4	U	1.4	U	1.4	U	NR		NR		NR		NR		NR	
3-Nitroaniline	NA	0.96	U	0.96	U	0.96	U	NR		NR		NR		NR		NR	
4,6-Dinitro-2-methylphenol	0.7	13	U	13	U	13	U	NR		NR		NR		NR		NR	
4-Bromophenyl phenyl ether	NA	0.75	U	0.75	U	0.75	U	NR		NR		NR		NR		NR	
4-Chloro-3-methylphenol	NA	0.58	U	0.58	U	0.58	U	NR		NR		NR		NR		NR	
4-Chlorophenyl phenyl ether	NA	1.3	U	1.3	U	1.3	U	NR		NR		NR		NR		NR	
4-Methylphenol	50	0.24	U	0.24	U	0.24	U	NR		NR		NR		NR		NR	
4-Nitroaniline	NA	0.54	U	0.54	U	0.54	U	NR		NR		NR		NR		NR	
4-Nitrophenol	NA	0.69	U	0.69	U	0.69	U	NR		NR		NR		NR		NR	
Acenaphthene	400	1.1	U	1.1	U	1.1	U	NR		NR		NR		NR		NR	
Acenaphthylene	NA	0.82	U	0.82	U	0.82	U	NR		NR		NR		NR		NR	
Anthracene	2000	0.63	U	0.63	U	0.63	U	NR		NR		NR		NR		NR	
Benzidine	20	5.1	U	5.1	U	5.1	U	NR		NR		NR		NR		NR	
Benzo[g,h,i]perylene	NA	1.4	U	1.4	U	1.4	U	NR		NR		NR		NR		NR	
Benzo[k]fluoranthene	0.5	0.67	U	0.67	U	0.67	U	NR		NR		NR		NR		NR	
bis (2-chloroisopropyl) ether	NA	0.63	U	0.63	U	0.63	U	NR		NR		NR		NR		NR	
Bis(2-chloroethoxy)methane	NA	0.24	U	0.24	U	0.24	U	NR		NR		NR		NR		NR	
Bis(2-ethylhexyl) phthalate	3	1.7	U	1.7	U	1.7	U	NR		NR		NR		NR		NR	
Butyl benzyl phthalate	100	0.85	U	0.85	U	0.85	U	NR		NR		NR		NR		NR	
Carbazole	NA	0.68	U	0.68	U	0.68	U	NR		NR		NR		NR		NR	
Chrysene	5	0.91	U	0.91	U	0.91	U	NR		NR		NR		NR		NR	
Dibenzofuran	NA	1.1	U	1.1	U	1.1	U	NR		NR		NR		NR		NR	
Diethyl phthalate	6000	0.98	U	0.98	U	0.98	U	NR		NR		NR		NR		NR	
Dimethyl phthalate	NA	0.77	U	0.77	U	0.77	U	NR		NR		NR		NR		NR	
Di-n-butyl phthalate	700	0.84	U	0.84	U	0.84	U	NR		NR		NR		NR		NR	
Di-n-octyl phthalate	100	4.8	U *	4.8	U *	4.8	U *	NR		NR		NR		NR		NR	
Fluoranthene	300	0.84	U	0.84	U	0.84	U	NR		NR		NR		NR		NR	
Fluorene	300	0.91	U	0.91	U	0.91	U	NR		NR		NR		NR		NR	
Hexachlorobutadiene	1	0.78	U	0.78	U	0.78	U	NR		NR		NR		NR		NR	
Hexachlorocyclopentadiene	40	1.7	U	1.7	U	1.7	U	NR		NR		NR		NR		NR	
Hexachloroethane	7	1.2	U	1.2	U	1.2	U	NR		NR		NR		NR		NR	
Isophorone	40	0.80	U	0.80	U	0.80	U	NR		NR		NR		NR		NR	
Naphthalene	300	1.1	U	1.1	U	1.1	U	NR		NR		NR		NR		NR	
Nitrobenzene	6	0.57	U	0.57	U	0.57	U	NR		NR		NR		NR		NR	
N-Nitrosodi-n-propylamine	10	0.43	U	0.43	U	0.43	U	NR		NR		NR		NR		NR	
N-Nitrosodiphenylamine	10	1.4	J	0.89	U	0.89	U	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-6/20-30**		**GWS-9/15-25**		**GWS-10/15-25**		**GWS-14/0-19**		**GWS-16/47-50**		**GWS-17/0-19**		**GWS-18/47-50**		**GWS-19/36-40**	
Screened Interval (bgs.)	Higher of PQLs	20' - 30'		15' - 25'		15' - 25'		0' - 19'		47' - 50'		0' - 19'		47' - 50'		36 - 40'	
Lab Sample ID	and GWQC	460-165468-3		460-165591-1		460-165591-2		320-48473-8		460-177578-2		320-48473-3		460-177578-1		460-177578-3	
Sampling Date	2019	9/25/2018		9/26/2018		9/26/2018		3/18/2019		3/19/2019		3/18/2019		3/19/2019		3/19/2019	
BN BY 8270D (ug/l) - Continued																	
Phenanthrene	NA	0.58	U	0.58	U	0.58	U	NR		NR		NR		NR		NR	
Phenol	2000	0.29	U	0.29	U	0.29	U	NR		NR		NR		NR		NR	
Pyrene	200	1.6	U	1.6	U	1.6	U	NR		NR		NR		NR		NR	
Total Conc	NA	3.8		0.0		0.0		NR		NR		NR		NR		NR	
Total Estimated Conc. (TICs)	500	69.6		0.0		0.0		NR		NR		NR		NR		NR	
BN SIM BY 8270D SIM (ug/l)																	
1,4-Dioxane	0.4	**3.7**	*	0.17	U	0.17	U	NR		NR		NR		NR		NR	
Benzo[a]anthracene	0.1	0.021	J	0.016	U	0.016	U	NR		NR		NR		NR		NR	
Benzo[a]pyrene	0.1	0.022	U	0.022	U	0.022	U	NR		NR		NR		NR		NR	
Benzo[b]fluoranthene	0.2	0.024	U	0.024	U	0.024	U	NR		NR		NR		NR		NR	
Bis(2-chloroethyl)ether	7	0.026	U	0.026	U	0.026	U	NR		NR		NR		NR		NR	
Dibenz(a,h)anthracene	0.3	0.011	U	0.011	U *	0.011	U *	NR		NR		NR		NR		NR	
Hexachlorobenzene	0.02	0.013	U	0.013	U	0.013	U	NR		NR		NR		NR		NR	
Indeno[1,2,3-cd]pyrene	0.2	0.036	U	0.036	U	0.036	U	NR		NR		NR		NR		NR	
N-Nitrosodimethylamine	0.8	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
Pentachlorophenol	0.3	0.15	U	0.15	U *	0.15	U *	NR		NR		NR		NR		NR	
Total Conc	NA	3.721		0.0		0.0		NR		NR		NR		NR		NR	
PESTICIDES BY 8081B (ug/l)																	
4,4'-DDD	0.1	0.0060	U	0.0060	U	0.0060	U	NR		NR		NR		NR		NR	
4,4'-DDE	0.1	0.0020	U	0.0020	U	0.0020	U	NR		NR		NR		NR		NR	
4,4'-DDT	0.1	0.0040	U	0.0040	U	0.0040	U	NR		NR		NR		NR		NR	
Aldrin	0.04	0.0030	U	0.0030	U	0.0030	U	NR		NR		NR		NR		NR	
alpha-BHC	0.02	0.0070	U	0.0070	U	0.0070	U	NR		NR		NR		NR		NR	
beta-BHC	0.04	0.0040	U	0.0040	U	0.0040	U	NR		NR		NR		NR		NR	
Chlordane	NA	0.055	U	0.055	U	0.055	U	NR		NR		NR		NR		NR	
cis-Chlordane	NA	0.0020	U	0.0020	U	0.0020	U	NR		NR		NR		NR		NR	
delta-BHC	NA	0.0050	U	0.0050	U	0.0050	U	NR		NR		NR		NR		NR	
Dieldrin	0.03	0.0030	U	0.0030	U	0.0030	U	NR		NR		NR		NR		NR	
Endosulfan I	40	0.0020	U	0.0020	U	0.0020	U	NR		NR		NR		NR		NR	
Endosulfan II	40	0.0040	U	0.0040	U	0.0040	U	NR		NR		NR		NR		NR	
Endosulfan sulfate	40	0.0060	U	0.0060	U	0.0060	U	NR		NR		NR		NR		NR	
Endrin	2	0.0040	U	0.0040	U	0.0040	U	NR		NR		NR		NR		NR	
Endrin aldehyde	NA	0.0080	U	0.0080	U	0.0080	U	NR		NR		NR		NR		NR	
Endrin ketone	NA	0.0080	U	0.0080	U	0.0080	U	NR		NR		NR		NR		NR	
gamma-BHC (Lindane)	0.03	0.012	U	0.012	U	0.012	U	NR		NR		NR		NR		NR	
Heptachlor	0.05	0.0030	U	0.0030	U	0.0030	U	NR		NR		NR		NR		NR	
Heptachlor epoxide	0.2	0.0050	U	0.0050	U	0.0050	U	NR		NR		NR		NR		NR	
Methoxychlor	40	0.0040	U	0.0040	U	0.0040	U	NR		NR		NR		NR		NR	
Toxaphene	2	0.11	U	0.11	U	0.11	U	NR		NR		NR		NR		NR	
trans-Chlordane	NA	0.0030	U	0.0030	U	0.0030	U	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-6/20-30**		**GWS-9/15-25**		**GWS-10/15-25**		**GWS-14/0-19**		**GWS-16/47-50**		**GWS-17/0-19**		**GWS-18/47-50**		**GWS-19/36-40**	
Screened Interval (bgs.)	Higher of PQLs	20' - 30'		15' - 25'		15' - 25'		0' - 19'		47' - 50'		0' - 19'		47' - 50'		36 - 40'	
Lab Sample ID	and GWQC	460-165468-3		460-165591-1		460-165591-2		320-48473-8		460-177578-2		320-48473-3		460-177578-1		460-177578-3	
Sampling Date	2019	9/25/2018		9/26/2018		9/26/2018		3/18/2019		3/19/2019		3/18/2019		3/19/2019		3/19/2019	
PCBs BY 8082A (ug/l)																	
Aroclor 1016	NA	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
Aroclor 1221	NA	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
Aroclor 1232	NA	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
Aroclor 1242	NA	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
Aroclor 1248	NA	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
Aroclor 1254	NA	0.11	U	0.11	U	0.11	U	NR		NR		NR		NR		NR	
Aroclor 1260	NA	0.11	U	0.11	U	0.11	U	NR		NR		NR		NR		NR	
Aroclor 1262	NA	0.11	U	0.11	U	0.11	U	NR		NR		NR		NR		NR	
Aroclor 1268	NA	0.11	U	0.11	U	0.11	U	NR		NR		NR		NR		NR	
METALS BY 6020B (ug/l)																	
Aluminum	200	**638**		**762**		54.4		NR		NR		NR		NR		NR	
Antimony	6	0.62	U	0.62	U	0.62	U	NR		NR		NR		NR		NR	
Arsenic	3	**7.6**		2.3		**9.3**		NR		NR		NR		NR		NR	
Barium	6000	535		247		397		NR		NR		NR		NR		NR	
Beryllium	1	0.25	U	0.25	U	0.25	U	NR		NR		NR		NR		NR	
Cadmium	4	0.81	U	0.81	U	0.81	U	NR		NR		NR		NR		NR	
Calcium	NA	125000		124000		113000		NR		NR		NR		NR		NR	
Chromium	70	2.3	U	4.6		2.3	U	NR		NR		NR		NR		NR	
Cobalt	100	1.6	U	1.6	U	1.6	U	NR		NR		NR		NR		NR	
Copper	1300	2.0	U	9.3		3.7	J	NR		NR		NR		NR		NR	
Iron	300	**16800**		**50600**		**35100**		NR		NR		NR		NR		NR	
Lead	5	0.55	U	**25.2**		1.6		NR		NR		NR		NR		NR	
Magnesium	NA	43700		18900		16300		NR		NR		NR		NR		NR	
Manganese	50	**184**		**365**		**209**		NR		NR		NR		NR		NR	
Nickel	100	2.4	U	2.7	J	2.4	U	NR		NR		NR		NR		NR	
Potassium	NA	54300		8490		12500		NR		NR		NR		NR		NR	
Selenium	40	5.4	U	5.4	U	5.4	U	NR		NR		NR		NR		NR	
Silver	40	0.59	U	0.59	U	0.59	U	NR		NR		NR		NR		NR	
Sodium	50000	**60900**		29600		11900		NR		NR		NR		NR		NR	
Thallium	2	0.16	U	0.16	U	0.16	U	NR		NR		NR		NR		NR	
Vanadium	NA	5.8		4.3		1.6	J	NR		NR		NR		NR		NR	
Zinc	2000	11.7	J	19.0		11.1	U	NR		NR		NR		NR		NR	
MERCURY BY 7470A (ug/l)																	
Mercury	2	0.12	U	0.12	U	0.12	U	NR		NR		NR		NR		NR	
CYANIDE BY 9012B (ug/l)																	
Cyanide, Total	NA	2.0	U	6.2	J	2.0	U	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-6/20-30**		**GWS-9/15-25**		**GWS-10/15-25**		**GWS-14/0-19**		**GWS-16/47-50**		**GWS-17/0-19**		**GWS-18/47-50**		**GWS-19/36-40**	
Screened Interval (bgs.)	Higher of PQLs	20' - 30'		15' - 25'		15' - 25'		0' - 19'		47' - 50'		0' - 19'		47' - 50'		36 - 40'	
Lab Sample ID	and GWQC	460-165468-3		460-165591-1		460-165591-2		320-48473-8		460-177578-2		320-48473-3		460-177578-1		460-177578-3	
Sampling Date	2019	9/25/2018		9/26/2018		9/26/2018		3/18/2019		3/19/2019		3/18/2019		3/19/2019		3/19/2019	
AMMONIA BY 350.1 (mg/l)																	
Ammonia	3	**45.3**		**7**		**9.1**		NR		**5.5**		NR		**6.8**		NR	
TDS BY SM 2540C (mg/l)																	
Total Dissolved Solids	500	**1260**		**614**		**512**		NR		310		NR		**1070**		NR	
NITRATE BY 300.0 (mg/l)										**Method 353.2**				**Method 353.2**			
Nitrate as N	10	0.016	U	0.016	U	0.016	U	NR		1.1	F1	NR		**12.2**		NR	
WATER BY 537 (MODIFIED) (ng/l)																	
Perfluorooctanesulfonic acid (PFOS)	10	NR		NR		NR		2.22		**14.6**		**131**		**16.7**		NR	
Perfluorooctanoic acid (PFOA)	10	NR		NR		NR		**55.7**		**25.4**		**130**		**22.4**		NR	

Qualifiers:
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - LCS or LCSD is outside acceptance limits.
* - RPD of the LCS and LCSD exceeds the control limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Note:
NA - No Standard
NR - Not Analyzed
GW - Groundwater
ug/l - micrograms per liter
PQL - Practical Quantitation Level
TICS - Tentatively Identified Compounds
GWQC - Groundwater Quality Criteria
Exceeds the NJDEP GWQC

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-20/0-19**		**GWS-20/46-50**		**GWS-20/71-75**		**GWS-20/96-100**		**GWS-21/0-15**		**GWS-21/36-40**		**GWS-21/46-50**		**GWS-21/71-75**	
Screened Interval (bgs.)	Higher of PQLs	0' - 19'		46' - 50'		71' - 75'		96' - 100'		0' - 15'		36' - 40'		46' - 50'		71' - 75'	
Lab Sample ID	and GWQC	460-177668-1		460-177668-2		460-177668-3		460-177668-4		460-177984-1		460-177984-2		460-177984-3		460-177984-4	
Sampling Date	2019	3/20/2019		3/20/2019		3/20/2019		3/20/2019		3/25/2019		3/25/2019		3/25/2019		3/25/2019	
VOC BY 8260C (ug/l)																	
1,1,1-Trichloroethane	30	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
1,1,2,2-Tetrachloroethane	1	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
1,1,2-Trichloroethane	3	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,1-Dichloroethane	50	0.26	U	0.26	U	0.35	J	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
1,1-Dichloroethene	1	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
1,2,3-Trichlorobenzene	NA	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,2,4-Trichlorobenzene	9	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
1,2,4-Trimethylbenzene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloroethane	2	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloropropane	1	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,3-Dichlorobenzene	600	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
1,4-Dichlorobenzene	75	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U
2-Butanone	300	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
2-Hexanone	40	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
4-Methyl-2-pentanone	NA	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
Acetone	6000	5.2		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	1	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
Bromochloromethane	NA	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
Bromodichloromethane	1	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bromoform	4	0.54	U *	0.54	U *	0.54	U *	0.54	U *	0.54	U *	0.54	U *	0.54	U *	0.54	U *
Bromomethane	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon disulfide	700	0.16	U	0.16	U	0.16	U	0.25	J	0.16	U	0.16	U	0.16	U	0.16	U
Carbon tetrachloride	1	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
Chlorobenzene	50	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroethane	NA	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
Chloroform	70	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	1.0		2.5		0.33	U
Chloromethane	NA	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
cis-1,2-Dichloroethene	70	0.22	U	0.22	U	0.55	J	8.8		0.22	U	0.22	U	0.22	U	0.22	U
cis-1,3-Dichloropropene	NA	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
Cyclohexane	NA	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
Dibromochloromethane	1	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Dichlorodifluoromethane	1000	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Ethylbenzene	700	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Freon TF	20000	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Isopropylbenzene	700	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Methyl acetate	7000	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Methylcyclohexane	NA	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Methylene Chloride	3	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-20/0-19**		**GWS-20/46-50**		**GWS-20/71-75**		**GWS-20/96-100**		**GWS-21/0-15**		**GWS-21/36-40**		**GWS-21/46-50**		**GWS-21/71-75**	
Screened Interval (bgs.)	Higher of PQLs	0' - 19'		46' - 50'		71' - 75'		96' - 100'		0' - 15'		36' - 40'		46' - 50'		71' - 75'	
Lab Sample ID	and GWQC	460-177668-1		460-177668-2		460-177668-3		460-177668-4		460-177984-1		460-177984-2		460-177984-3		460-177984-4	
Sampling Date	2019	3/20/2019		3/20/2019		3/20/2019		3/20/2019		3/25/2019		3/25/2019		3/25/2019		3/25/2019	
VOC BY 8260C (ug/l) - Continued																	
MTBE	70	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U	33		1.5		0.47	U
Naphthalene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Styrene	100	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
TBA	100	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U
Tetrachloroethene	1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Toluene	600	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
trans-1,2-Dichloroethene	100	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
trans-1,3-Dichloropropene	NA	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U
Trichloroethene	1	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Trichlorofluoromethane	2000	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Vinyl chloride	1	0.17	U	0.17	U	0.17	U	**3.2**		0.17	U	0.17	U	0.17	U	0.17	U
Xylenes, Total	1000	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Total Conc	NA	5.2		0.0		0.9		12.25		0.0		34.0		4.0		0.0	
Total Estimated Conc. (TICs)	500	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
VO SIM BY 8260C SIM (ug/l)																	
1,2,3-Trichloropropane	0.03	0.0030	U *	0.0030	U *	0.0030	U *	0.0030	U *	0.0030	U	0.017	J	0.0030	U	0.0030	U
1,2-Dibromo-3-Chloropropane	0.02	0.0040	U *	0.0040	U *	0.0040	U *	0.0040	U *	0.0040	U	0.0040	U	0.0040	U	0.0040	U
1,4-Dioxane	0.4	0.20	U	0.20	U	**0.71**		**0.67**		0.20	U	0.20	U	0.40		0.20	U
Ethylene Dibromide	0.03	0.0010	U *	0.0010	U *	0.0010	U *	0.0010	U *	0.0010	U	**0.052**		0.0065	J	0.0010	U
Total Conc	NA	0.0		0.0		0.71		0.67		0.0		0.069		0.4065		0.0	
BN BY 8270D (ug/l)																	
1,2,4,5-Tetrachlorobenzene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
1,2,4-Trichlorobenzene	9	NR		NR		NR		NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	NR		NR		NR		NR		NR		NR		NR		NR	
1,3-Dichlorobenzene	600	NR		NR		NR		NR		NR		NR		NR		NR	
1,4-Dichlorobenzene	75	NR		NR		NR		NR		NR		NR		NR		NR	
1-Methylnaphthalene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2,3,4,6-Tetrachlorophenol	200	NR		NR		NR		NR		NR		NR		NR		NR	
2,4,5-Trichlorophenol	700	NR		NR		NR		NR		NR		NR		NR		NR	
2,4,6-Trichlorophenol	20	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dichlorophenol	20	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dimethylphenol	100	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dinitrophenol	40	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dinitrotoluene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2,6-Dinitrotoluene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2-Chloronaphthalene	600	NR		NR		NR		NR		NR		NR		NR		NR	
2-Chlorophenol	40	NR		NR		NR		NR		NR		NR		NR		NR	
2-Methylnaphthalene	30	NR		NR		NR		NR		NR		NR		NR		NR	
2-Methylphenol	50	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
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Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-20/0-19**		**GWS-20/46-50**		**GWS-20/71-75**		**GWS-20/96-100**		**GWS-21/0-15**		**GWS-21/36-40**		**GWS-21/46-50**		**GWS-21/71-75**	
Screened Interval (bgs.)	Higher of PQLs	0' - 19'		46' - 50'		71' - 75'		96' - 100'		0' - 15'		36' - 40'		46' - 50'		71' - 75'	
Lab Sample ID	and GWQC	460-177668-1		460-177668-2		460-177668-3		460-177668-4		460-177984-1		460-177984-2		460-177984-3		460-177984-4	
Sampling Date	2019	3/20/2019		3/20/2019		3/20/2019		3/20/2019		3/25/2019		3/25/2019		3/25/2019		3/25/2019	
BN BY 8270D (ug/l) - Continued																	
2-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2-Nitrophenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
3,3'-Dichlorobenzidine	30	NR		NR		NR		NR		NR		NR		NR		NR	
3-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4,6-Dinitro-2-methylphenol	0.7	NR		NR		NR		NR		NR		NR		NR		NR	
4-Bromophenyl phenyl ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Chloro-3-methylphenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Chlorophenyl phenyl ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Methylphenol	50	NR		NR		NR		NR		NR		NR		NR		NR	
4-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Nitrophenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Acenaphthene	400	NR		NR		NR		NR		NR		NR		NR		NR	
Acenaphthylene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Anthracene	2000	NR		NR		NR		NR		NR		NR		NR		NR	
Benzidine	20	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[g,h,i]perylene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[k]fluoranthene	0.5	NR		NR		NR		NR		NR		NR		NR		NR	
bis (2-chloroisopropyl) ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-chloroethoxy)methane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-ethylhexyl) phthalate	3	NR		NR		NR		NR		NR		NR		NR		NR	
Butyl benzyl phthalate	100	NR		NR		NR		NR		NR		NR		NR		NR	
Carbazole	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Chrysene	5	NR		NR		NR		NR		NR		NR		NR		NR	
Dibenzofuran	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Diethyl phthalate	6000	NR		NR		NR		NR		NR		NR		NR		NR	
Dimethyl phthalate	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Di-n-butyl phthalate	700	NR		NR		NR		NR		NR		NR		NR		NR	
Di-n-octyl phthalate	100	NR		NR		NR		NR		NR		NR		NR		NR	
Fluoranthene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Fluorene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorobutadiene	1	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorocyclopentadiene	40	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachloroethane	7	NR		NR		NR		NR		NR		NR		NR		NR	
Isophorone	40	NR		NR		NR		NR		NR		NR		NR		NR	
Naphthalene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Nitrobenzene	6	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodi-n-propylamine	10	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodiphenylamine	10	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
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Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-20/0-19**		**GWS-20/46-50**		**GWS-20/71-75**		**GWS-20/96-100**		**GWS-21/0-15**		**GWS-21/36-40**		**GWS-21/46-50**		**GWS-21/71-75**	
Screened Interval (bgs.)	Higher of PQLs	0' - 19'		46' - 50'		71' - 75'		96' - 100'		0' - 15'		36' - 40'		46' - 50'		71' - 75'	
Lab Sample ID	and GWQC	460-177668-1		460-177668-2		460-177668-3		460-177668-4		460-177984-1		460-177984-2		460-177984-3		460-177984-4	
Sampling Date	2019	3/20/2019		3/20/2019		3/20/2019		3/20/2019		3/25/2019		3/25/2019		3/25/2019		3/25/2019	
BN BY 8270D (ug/l) - Continued																	
Phenanthrene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Phenol	2000	NR		NR		NR		NR		NR		NR		NR		NR	
Pyrene	200	NR		NR		NR		NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Total Estimated Conc. (TICs)	500	NR		NR		NR		NR		NR		NR		NR		NR	
BN SIM BY 8270D SIM (ug/l)																	
1,4-Dioxane	0.4	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[a]anthracene	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[a]pyrene	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[b]fluoranthene	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-chloroethyl)ether	7	NR		NR		NR		NR		NR		NR		NR		NR	
Dibenz(a,h)anthracene	0.3	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorobenzene	0.02	NR		NR		NR		NR		NR		NR		NR		NR	
Indeno[1,2,3-cd]pyrene	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodimethylamine	0.8	NR		NR		NR		NR		NR		NR		NR		NR	
Pentachlorophenol	0.3	NR		NR		NR		NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR		NR		NR		NR	
PESTICIDES BY 8081B (ug/l)																	
4,4'-DDD	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
4,4'-DDE	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
4,4'-DDT	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Aldrin	0.04	NR		NR		NR		NR		NR		NR		NR		NR	
alpha-BHC	0.02	NR		NR		NR		NR		NR		NR		NR		NR	
beta-BHC	0.04	NR		NR		NR		NR		NR		NR		NR		NR	
Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
cis-Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
delta-BHC	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Dieldrin	0.03	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan I	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan II	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan sulfate	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin	2	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin aldehyde	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin ketone	NA	NR		NR		NR		NR		NR		NR		NR		NR	
gamma-BHC (Lindane)	0.03	NR		NR		NR		NR		NR		NR		NR		NR	
Heptachlor	0.05	NR		NR		NR		NR		NR		NR		NR		NR	
Heptachlor epoxide	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
Methoxychlor	40	NR		NR		NR		NR		NR		NR		NR		NR	
Toxaphene	2	NR		NR		NR		NR		NR		NR		NR		NR	
trans-Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
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Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-20/0-19**		**GWS-20/46-50**		**GWS-20/71-75**		**GWS-20/96-100**		**GWS-21/0-15**		**GWS-21/36-40**		**GWS-21/46-50**		**GWS-21/71-75**	
Screened Interval (bgs.)	Higher of PQLs	0' - 19'		46' - 50'		71' - 75'		96' - 100'		0' - 15'		36' - 40'		46' - 50'		71' - 75'	
Lab Sample ID	and GWQC	460-177668-1		460-177668-2		460-177668-3		460-177668-4		460-177984-1		460-177984-2		460-177984-3		460-177984-4	
Sampling Date	2019	3/20/2019		3/20/2019		3/20/2019		3/20/2019		3/25/2019		3/25/2019		3/25/2019		3/25/2019	
PCBs BY 8082A (ug/l)																	
Aroclor 1016	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1221	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1232	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1242	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1248	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1254	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1260	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1262	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1268	NA	NR		NR		NR		NR		NR		NR		NR		NR	
METALS BY 6020B (ug/l)																	
Aluminum	200	NR		NR		NR		NR		NR		NR		NR		NR	
Antimony	6	NR		NR		NR		NR		NR		NR		NR		NR	
Arsenic	3	NR		NR		NR		NR		NR		NR		NR		NR	
Barium	6000	NR		NR		NR		NR		NR		NR		NR		NR	
Beryllium	1	NR		NR		NR		NR		NR		NR		NR		NR	
Cadmium	4	NR		NR		NR		NR		NR		NR		NR		NR	
Calcium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Chromium	70	NR		NR		NR		NR		NR		NR		NR		NR	
Cobalt	100	NR		NR		NR		NR		NR		NR		NR		NR	
Copper	1300	NR		NR		NR		NR		NR		NR		NR		NR	
Iron	300	NR		NR		NR		NR		NR		NR		NR		NR	
Lead	5	NR		NR		NR		NR		NR		NR		NR		NR	
Magnesium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Manganese	50	NR		NR		NR		NR		NR		NR		NR		NR	
Nickel	100	NR		NR		NR		NR		NR		NR		NR		NR	
Potassium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Selenium	40	NR		NR		NR		NR		NR		NR		NR		NR	
Silver	40	NR		NR		NR		NR		NR		NR		NR		NR	
Sodium	50000	NR		NR		NR		NR		NR		NR		NR		NR	
Thallium	2	NR		NR		NR		NR		NR		NR		NR		NR	
Vanadium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Zinc	2000	NR		NR		NR		NR		NR		NR		NR		NR	
MERCURY BY 7470A (ug/l)																	
Mercury	2	NR		NR		NR		NR		NR		NR		NR		NR	
CYANIDE BY 9012B (ug/l)																	
Cyanide, Total	NA	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-20/0-19**		**GWS-20/46-50**		**GWS-20/71-75**		**GWS-20/96-100**		**GWS-21/0-15**		**GWS-21/36-40**		**GWS-21/46-50**		**GWS-21/71-75**	
Screened Interval (bgs.)	Higher of PQLs	0' - 19'		46' - 50'		71' - 75'		96' - 100'		0' - 15'		36' - 40'		46' - 50'		71' - 75'	
Lab Sample ID	and GWQC	460-177668-1		460-177668-2		460-177668-3		460-177668-4		460-177984-1		460-177984-2		460-177984-3		460-177984-4	
Sampling Date	2019	3/20/2019		3/20/2019		3/20/2019		3/20/2019		3/25/2019		3/25/2019		3/25/2019		3/25/2019	
AMMONIA BY 350.1 (mg/l)																	
Ammonia	3	0.42		0.33		NR		NR		0.18		NR		0.068	U	NR	
TDS BY SM 2540C (mg/l)																	
Total Dissolved Solids	500	**1030**		363		NR		NR		**1320**		NR		162		NR	
NITRATE BY 300.0 (mg/l)		**Method 353.2**		**Method 353.2**						**Method 353.2**				**Method 353.2**			
Nitrate as N	10	**37.6**		**19.0**		NR		NR		**29.2**		NR		1.8		NR	
WATER BY 537 (MODIFIED) (ng/l)																	
Perfluorooctanesulfonic acid (PFOS)	10	0.54	J	2.38		NR		NR		0.49	U	NR		0.98	J	NR	
Perfluorooctanoic acid (PFOA)	10	8.45		3.24		NR		NR		**42.6**		NR		3.29		NR	

Qualifiers:
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - LCS or LCSD is outside acceptance limits.
* - RPD of the LCS and LCSD exceeds the control limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Note:
NA - No Standard
NR - Not Analyzed
GW - Groundwater
ug/l - micrograms per liter
PQL - Practical Quantitation Level
TICS - Tentatively Identified Compounds
GWQC - Groundwater Quality Criteria
Exceeds the NJDEP GWQC

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-21/96-100**		**GWS-22/0-15**		**GWS-22/26-30**		**GWS-22/46-50**		**GWS-22/71-75**		**GWS-22/96-100**		**LOT 29.02**		**GWS-23/0-18**	
Screened Interval (bgs.)	Higher of PQLs	96' - 100'		0' - 15'		26' - 30'		46' - 50'		71' - 75'		96' - 100'		**IRRIGATION**		0' - 18'	
Lab Sample ID	and GWQC	460-178096-1		460-178096-2		460-178096-3		460-178096-4		460-178223-1		460-178223-2		460-178220-1		460-178560-1	
Sampling Date	2019	3/26/2019		3/26/2019		3/26/2019		3/26/2019		3/27/2019		3/27/2019		3/27/2019		4/1/2019	
VOC BY 8260C (ug/l)																	
1,1,1-Trichloroethane	30	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
1,1,2,2-Tetrachloroethane	1	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
1,1,2-Trichloroethane	3	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,1-Dichloroethane	50	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
1,1-Dichloroethene	1	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
1,2,3-Trichlorobenzene	NA	0.36	U *	0.36	U *	0.36	U *	0.36	U *	0.36	U	0.36	U	0.36	U *	0.36	U
1,2,4-Trichlorobenzene	9	0.37	U *	0.37	U *	0.37	U *	0.37	U *	0.37	U	0.37	U	0.37	U *	0.37	U
1,2,4-Trimethylbenzene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloroethane	2	0.43	U	0.43	U	0.43	U	0.47	J	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloropropane	1	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,3-Dichlorobenzene	600	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
1,4-Dichlorobenzene	75	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U
2-Butanone	300	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
2-Hexanone	40	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
4-Methyl-2-pentanone	NA	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
Acetone	6000	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	1	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
Bromochloromethane	NA	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
Bromodichloromethane	1	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bromoform	4	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
Bromomethane	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon disulfide	700	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U
Carbon tetrachloride	1	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
Chlorobenzene	50	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroethane	NA	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
Chloroform	70	0.33	U	0.33	U	0.44	J	0.43	J	0.65	J	0.38	J	0.33	U	0.33	U
Chloromethane	NA	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
cis-1,2-Dichloroethene	70	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U
cis-1,3-Dichloropropene	NA	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
Cyclohexane	NA	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U *
Dibromochloromethane	1	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Dichlorodifluoromethane	1000	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Ethylbenzene	700	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Freon TF	20000	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U *	0.31	U
Isopropylbenzene	700	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Methyl acetate	7000	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U *
Methylcyclohexane	NA	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Methylene Chloride	3	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U

TABLE 3
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Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-21/96-100**		**GWS-22/0-15**		**GWS-22/26-30**		**GWS-22/46-50**		**GWS-22/71-75**		**GWS-22/96-100**		**LOT 29.02**		**GWS-23/0-18**	
Screened Interval (bgs.)	Higher of PQLs	96' - 100'		0' - 15'		26' - 30'		46' - 50'		71' - 75'		96' - 100'		**IRRIGATION**		0' - 18'	
Lab Sample ID	and GWQC	460-178096-1		460-178096-2		460-178096-3		460-178096-4		460-178223-1		460-178223-2		460-178220-1		460-178560-1	
Sampling Date	2019	3/26/2019		3/26/2019		3/26/2019		3/26/2019		3/27/2019		3/27/2019		3/27/2019		4/1/2019	
VOC BY 8260C (ug/l) - Continued																	
MTBE	70	0.47	U	0.47	U	5.6		11		2.9		0.79	J	0.47	U	0.47	U
Naphthalene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Styrene	100	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
TBA	100	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U
Tetrachloroethene	1	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Toluene	600	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
trans-1,2-Dichloroethene	100	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
trans-1,3-Dichloropropene	NA	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U
Trichloroethene	1	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Trichlorofluoromethane	2000	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Vinyl chloride	1	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U
Xylenes, Total	1000	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Total Conc	NA	0.0		0.0		6.04		11.9		3.55		1.17		0.0		0.0	
Total Estimated Conc. (TICs)	500	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
VO SIM BY 8260C SIM (ug/l)																	
1,2,3-Trichloropropane	0.03	0.0030	U	0.0030	U	0.0079	J	0.021	J	0.0030	U	0.0030	U	0.0030	U	0.0030	U
1,2-Dibromo-3-Chloropropane	0.02	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
1,4-Dioxane	0.4	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Ethylene Dibromide	0.03	0.0010	U	0.0010	U	0.023		**0.076**		0.0081	J	0.0047	J	0.0032	J	0.0010	U
Total Conc	NA	0.0		0.0		0.0309		0.097		0.0081		0.0047		0.0032		0.0	
BN BY 8270D (ug/l)																	
1,2,4,5-Tetrachlorobenzene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
1,2,4-Trichlorobenzene	9	NR		NR		NR		NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	NR		NR		NR		NR		NR		NR		NR		NR	
1,3-Dichlorobenzene	600	NR		NR		NR		NR		NR		NR		NR		NR	
1,4-Dichlorobenzene	75	NR		NR		NR		NR		NR		NR		NR		NR	
1-Methylnaphthalene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2,3,4,6-Tetrachlorophenol	200	NR		NR		NR		NR		NR		NR		NR		NR	
2,4,5-Trichlorophenol	700	NR		NR		NR		NR		NR		NR		NR		NR	
2,4,6-Trichlorophenol	20	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dichlorophenol	20	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dimethylphenol	100	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dinitrophenol	40	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dinitrotoluene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2,6-Dinitrotoluene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2-Chloronaphthalene	600	NR		NR		NR		NR		NR		NR		NR		NR	
2-Chlorophenol	40	NR		NR		NR		NR		NR		NR		NR		NR	
2-Methylnaphthalene	30	NR		NR		NR		NR		NR		NR		NR		NR	
2-Methylphenol	50	NR		NR		NR		NR		NR		NR		NR		NR	

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Client ID	Class II-A	**GWS-21/96-100**		**GWS-22/0-15**		**GWS-22/26-30**		**GWS-22/46-50**		**GWS-22/71-75**		**GWS-22/96-100**		**LOT 29.02**		**GWS-23/0-18**	
Screened Interval (bgs.)	Higher of PQLs	96' - 100'		0' - 15'		26' - 30'		46' - 50'		71' - 75'		96' - 100'		**IRRIGATION**		0' - 18'	
Lab Sample ID	and GWQC	460-178096-1		460-178096-2		460-178096-3		460-178096-4		460-178223-1		460-178223-2		460-178220-1		460-178560-1	
Sampling Date	2019	3/26/2019		3/26/2019		3/26/2019		3/26/2019		3/27/2019		3/27/2019		3/27/2019		4/1/2019	
BN BY 8270D (ug/l) - Continued																	
2-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2-Nitrophenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
3,3'-Dichlorobenzidine	30	NR		NR		NR		NR		NR		NR		NR		NR	
3-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4,6-Dinitro-2-methylphenol	0.7	NR		NR		NR		NR		NR		NR		NR		NR	
4-Bromophenyl phenyl ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Chloro-3-methylphenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Chlorophenyl phenyl ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Methylphenol	50	NR		NR		NR		NR		NR		NR		NR		NR	
4-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Nitrophenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Acenaphthene	400	NR		NR		NR		NR		NR		NR		NR		NR	
Acenaphthylene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Anthracene	2000	NR		NR		NR		NR		NR		NR		NR		NR	
Benzidine	20	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[g,h,i]perylene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[k]fluoranthene	0.5	NR		NR		NR		NR		NR		NR		NR		NR	
bis (2-chloroisopropyl) ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-chloroethoxy)methane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-ethylhexyl) phthalate	3	NR		NR		NR		NR		NR		NR		NR		NR	
Butyl benzyl phthalate	100	NR		NR		NR		NR		NR		NR		NR		NR	
Carbazole	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Chrysene	5	NR		NR		NR		NR		NR		NR		NR		NR	
Dibenzofuran	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Diethyl phthalate	6000	NR		NR		NR		NR		NR		NR		NR		NR	
Dimethyl phthalate	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Di-n-butyl phthalate	700	NR		NR		NR		NR		NR		NR		NR		NR	
Di-n-octyl phthalate	100	NR		NR		NR		NR		NR		NR		NR		NR	
Fluoranthene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Fluorene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorobutadiene	1	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorocyclopentadiene	40	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachloroethane	7	NR		NR		NR		NR		NR		NR		NR		NR	
Isophorone	40	NR		NR		NR		NR		NR		NR		NR		NR	
Naphthalene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Nitrobenzene	6	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodi-n-propylamine	10	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodiphenylamine	10	NR		NR		NR		NR		NR		NR		NR		NR	

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Client ID	Class II-A	**GWS-21/96-100**		**GWS-22/0-15**		**GWS-22/26-30**		**GWS-22/46-50**		**GWS-22/71-75**		**GWS-22/96-100**		**LOT 29.02**		**GWS-23/0-18**	
Screened Interval (bgs.)	Higher of PQLs	96' - 100'		0' - 15'		26' - 30'		46' - 50'		71' - 75'		96' - 100'		**IRRIGATION**		0' - 18'	
Lab Sample ID	and GWQC	460-178096-1		460-178096-2		460-178096-3		460-178096-4		460-178223-1		460-178223-2		460-178220-1		460-178560-1	
Sampling Date	2019	3/26/2019		3/26/2019		3/26/2019		3/26/2019		3/27/2019		3/27/2019		3/27/2019		4/1/2019	
BN BY 8270D (ug/l) - Continued																	
Phenanthrene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Phenol	2000	NR		NR		NR		NR		NR		NR		NR		NR	
Pyrene	200	NR		NR		NR		NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Total Estimated Conc. (TICs)	500	NR		NR		NR		NR		NR		NR		NR		NR	
BN SIM BY 8270D SIM (ug/l)																	
1,4-Dioxane	0.4	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[a]anthracene	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[a]pyrene	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[b]fluoranthene	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-chloroethyl)ether	7	NR		NR		NR		NR		NR		NR		NR		NR	
Dibenz(a,h)anthracene	0.3	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorobenzene	0.02	NR		NR		NR		NR		NR		NR		NR		NR	
Indeno[1,2,3-cd]pyrene	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodimethylamine	0.8	NR		NR		NR		NR		NR		NR		NR		NR	
Pentachlorophenol	0.3	NR		NR		NR		NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR		NR		NR		NR	
PESTICIDES BY 8081B (ug/l)																	
4,4'-DDD	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
4,4'-DDE	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
4,4'-DDT	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Aldrin	0.04	NR		NR		NR		NR		NR		NR		NR		NR	
alpha-BHC	0.02	NR		NR		NR		NR		NR		NR		NR		NR	
beta-BHC	0.04	NR		NR		NR		NR		NR		NR		NR		NR	
Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
cis-Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
delta-BHC	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Dieldrin	0.03	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan I	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan II	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan sulfate	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin	2	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin aldehyde	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin ketone	NA	NR		NR		NR		NR		NR		NR		NR		NR	
gamma-BHC (Lindane)	0.03	NR		NR		NR		NR		NR		NR		NR		NR	
Heptachlor	0.05	NR		NR		NR		NR		NR		NR		NR		NR	
Heptachlor epoxide	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
Methoxychlor	40	NR		NR		NR		NR		NR		NR		NR		NR	
Toxaphene	2	NR		NR		NR		NR		NR		NR		NR		NR	
trans-Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-21/96-100**		**GWS-22/0-15**		**GWS-22/26-30**		**GWS-22/46-50**		**GWS-22/71-75**		**GWS-22/96-100**		**LOT 29.02**		**GWS-23/0-18**	
Screened Interval (bgs.)	Higher of PQLs	96' - 100'		0' - 15'		26' - 30'		46' - 50'		71' - 75'		96' - 100'		**IRRIGATION**		0' - 18'	
Lab Sample ID	and GWQC	460-178096-1		460-178096-2		460-178096-3		460-178096-4		460-178223-1		460-178223-2		460-178220-1		460-178560-1	
Sampling Date	2019	3/26/2019		3/26/2019		3/26/2019		3/26/2019		3/27/2019		3/27/2019		3/27/2019		4/1/2019	
PCBs BY 8082A (ug/l)																	
Aroclor 1016	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1221	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1232	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1242	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1248	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1254	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1260	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1262	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1268	NA	NR		NR		NR		NR		NR		NR		NR		NR	
METALS BY 6020B (ug/l)																	
Aluminum	200	NR		NR		NR		NR		NR		NR		NR		NR	
Antimony	6	NR		NR		NR		NR		NR		NR		NR		NR	
Arsenic	3	NR		NR		NR		NR		NR		NR		NR		NR	
Barium	6000	NR		NR		NR		NR		NR		NR		NR		NR	
Beryllium	1	NR		NR		NR		NR		NR		NR		NR		NR	
Cadmium	4	NR		NR		NR		NR		NR		NR		NR		NR	
Calcium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Chromium	70	NR		NR		NR		NR		NR		NR		NR		NR	
Cobalt	100	NR		NR		NR		NR		NR		NR		NR		NR	
Copper	1300	NR		NR		NR		NR		NR		NR		NR		NR	
Iron	300	NR		NR		NR		NR		NR		NR		NR		NR	
Lead	5	NR		NR		NR		NR		NR		NR		NR		NR	
Magnesium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Manganese	50	NR		NR		NR		NR		NR		NR		NR		NR	
Nickel	100	NR		NR		NR		NR		NR		NR		NR		NR	
Potassium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Selenium	40	NR		NR		NR		NR		NR		NR		NR		NR	
Silver	40	NR		NR		NR		NR		NR		NR		NR		NR	
Sodium	50000	NR		NR		NR		NR		NR		NR		NR		NR	
Thallium	2	NR		NR		NR		NR		NR		NR		NR		NR	
Vanadium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Zinc	2000	NR		NR		NR		NR		NR		NR		NR		NR	
MERCURY BY 7470A (ug/l)																	
Mercury	2	NR		NR		NR		NR		NR		NR		NR		NR	
CYANIDE BY 9012B (ug/l)																	
Cyanide, Total	NA	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-21/96-100**		**GWS-22/0-15**		**GWS-22/26-30**		**GWS-22/46-50**		**GWS-22/71-75**		**GWS-22/96-100**		**LOT 29.02**		**GWS-23/0-18**	
Screened Interval (bgs.)	Higher of PQLs	96' - 100'		0' - 15'		26' - 30'		46' - 50'		71' - 75'		96' - 100'		**IRRIGATION**		0' - 18'	
Lab Sample ID	and GWQC	460-178096-1		460-178096-2		460-178096-3		460-178096-4		460-178223-1		460-178223-2		460-178220-1		460-178560-1	
Sampling Date	2019	3/26/2019		3/26/2019		3/26/2019		3/26/2019		3/27/2019		3/27/2019		3/27/2019		4/1/2019	
AMMONIA BY 350.1 (mg/l)																	
Ammonia	3	NR		0.32		NR		0.28		NR		NR		NR		0.17	J
TDS BY SM 2540C (mg/l)																	
Total Dissolved Solids	500	NR		**1680**		NR		417		NR		NR		NR		378	
NITRATE BY 300.0 (mg/l)				**Method 353.2**				**Method 353.2**								**Method 353.2**	
Nitrate as N	10	NR		**56.5**		NR		**16.1**		NR		NR		NR		**17.8**	
WATER BY 537 (MODIFIED) (ng/l)																	
Perfluorooctanesulfonic acid (PFOS)	10	NR		0.81	J	NR		2.22		NR		NR		NR		ND	
Perfluorooctanoic acid (PFOA)	10	NR		**24.7**		NR		**12.6**		NR		NR		NR		4.44	

Qualifiers:
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - LCS or LCSD is outside acceptance limits.
* - RPD of the LCS and LCSD exceeds the control limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Note:
NA - No Standard
NR - Not Analyzed
GW - Groundwater
ug/l - micrograms per liter
PQL - Practical Quantitation Level
TICS - Tentatively Identified Compounds
GWQC - Groundwater Quality Criteria
Exceeds the NJDEP GWQC

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-23/46-50**		**GWS-23/71-75**		**GWS-23/96-100**		**GWS-24/0-15**		**GWS-24/46-50**		**GWS-24/71-75**		**GWS-24/96-100**		**GWS-25/0-15**	
Screened Interval (bgs.)	Higher of PQLs	46' - 50'		71' - 75'		96' - 100'		0' - 15'		46' - 50'		71' - 75'		96' - 100'		**0' - 15'**	
Lab Sample ID	and GWQC	460-178560-2		460-178560-3		460-178560-4		460-178647-1		460-178647-2		460-178647-3		460-178793-1		460-178876-1	
Sampling Date	2019	4/1/2019		4/1/2019		4/1/2019		4/2/2019		4/2/2019		4/2/2019		4/2/2019		4/4/2019	
VOC BY 8260C (ug/l)																	
1,1,1-Trichloroethane	30	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U	0.24	U
1,1,2,2-Tetrachloroethane	1	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
1,1,2-Trichloroethane	3	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,1-Dichloroethane	50	0.26	U	0.96	J	0.56	J	0.26	U	0.26	U	0.26	U	0.67	J	0.26	U
1,1-Dichloroethene	1	0.12	U	0.51	J	0.12	U	0.12	U	0.12	U	0.12	U	0.64	J	0.12	U
1,2,3-Trichlorobenzene	NA	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U
1,2,4-Trichlorobenzene	9	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U	0.37	U
1,2,4-Trimethylbenzene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloroethane	2	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
1,2-Dichloropropane	1	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U	0.35	U
1,3-Dichlorobenzene	600	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
1,4-Dichlorobenzene	75	0.91	J	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U	0.76	U
2-Butanone	300	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
2-Hexanone	40	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
4-Methyl-2-pentanone	NA	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
Acetone	6000	5.0	U	7.3		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	1	1.0		**1.7**		**1.2**		0.43	U	0.43	U	**1.5**		**1.7**		0.43	U
Bromochloromethane	NA	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U
Bromodichloromethane	1	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Bromoform	4	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U	0.54	U
Bromomethane	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon disulfide	700	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.57	J	0.16	U
Carbon tetrachloride	1	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
Chlorobenzene	50	1.9		1.1		0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
Chloroethane	NA	1.8		0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
Chloroform	70	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
Chloromethane	NA	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
cis-1,2-Dichloroethene	70	15		**130**		51		0.22	U	43		30		**350**		0.22	U
cis-1,3-Dichloropropene	NA	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U
Cyclohexane	NA	0.32	U *	0.32	U *	0.32	U *	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U
Dibromochloromethane	1	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Dichlorodifluoromethane	1000	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Ethylbenzene	700	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Freon TF	20000	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Isopropylbenzene	700	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U	0.34	U
Methyl acetate	7000	0.31	U *	0.31	U *	0.31	U *	0.31	U	0.31	U	0.31	U	0.31	U	0.31	U
Methylcyclohexane	NA	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
Methylene Chloride	3	0.32	U	0.32	U	0.54	J	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U

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Client ID	Class II-A	**GWS-23/46-50**		**GWS-23/71-75**		**GWS-23/96-100**		**GWS-24/0-15**		**GWS-24/46-50**		**GWS-24/71-75**		**GWS-24/96-100**		**GWS-25/0-15**	
Screened Interval (bgs.)	Higher of PQLs	46' - 50'		71' - 75'		96' - 100'		0' - 15'		46' - 50'		71' - 75'		96' - 100'		**0' - 15'**	
Lab Sample ID	and GWQC	460-178560-2		460-178560-3		460-178560-4		460-178647-1		460-178647-2		460-178647-3		460-178793-1		460-178876-1	
Sampling Date	2019	4/1/2019		4/1/2019		4/1/2019		4/2/2019		4/2/2019		4/2/2019		4/2/2019		4/4/2019	
VOC BY 8260C (ug/l) - Continued																	
MTBE	70	4.4		36		2.3		0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
Naphthalene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Styrene	100	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
TBA	100	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U	8.3	U
Tetrachloroethene	1	0.25	U	0.39	J	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
Toluene	600	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U	0.38	U
trans-1,2-Dichloroethene	100	0.24	U	2.1		0.66	J	0.24	U	0.24	U	0.97	J	2.4		0.24	U
trans-1,3-Dichloropropene	NA	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U
Trichloroethene	1	0.31	U	**3.1**		**2.5**		0.31	U	**22**		**9.1**		**4.0**		0.31	U
Trichlorofluoromethane	2000	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
Vinyl chloride	1	**9.5**		**150**		**56**		0.17	U	0.48	J	**1.9**		**7.6**		0.17	U
Xylenes, Total	1000	0.30	U	0.52	J	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
Total Conc	NA	34.51		333.68		114.76		0.0		65.48		43.47		367.58		0.0	
Total Estimated Conc. (TICs)	500	0.0		0.0		0.0		0.0		0.0		0.0		7.6		0.0*T	
VO SIM BY 8260C SIM (ug/l)																	
1,2,3-Trichloropropane	0.03	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U	0.0030	U
1,2-Dibromo-3-Chloropropane	0.02	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U	0.0040	U
1,4-Dioxane	0.4	**1.8**		**3.0**		**1.9**		0.20	U	0.20	U	**1.4**		**2.0**		0.20	U
Ethylene Dibromide	0.03	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Total Conc	NA	1.8		3.0		1.9		0.0		0.0		1.4		2.0		0.0	
BN BY 8270D (ug/l)																	
1,2,4,5-Tetrachlorobenzene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
1,2,4-Trichlorobenzene	9	NR		NR		NR		NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	NR		NR		NR		NR		NR		NR		NR		NR	
1,3-Dichlorobenzene	600	NR		NR		NR		NR		NR		NR		NR		NR	
1,4-Dichlorobenzene	75	NR		NR		NR		NR		NR		NR		NR		NR	
1-Methylnaphthalene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2,3,4,6-Tetrachlorophenol	200	NR		NR		NR		NR		NR		NR		NR		NR	
2,4,5-Trichlorophenol	700	NR		NR		NR		NR		NR		NR		NR		NR	
2,4,6-Trichlorophenol	20	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dichlorophenol	20	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dimethylphenol	100	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dinitrophenol	40	NR		NR		NR		NR		NR		NR		NR		NR	
2,4-Dinitrotoluene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2,6-Dinitrotoluene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2-Chloronaphthalene	600	NR		NR		NR		NR		NR		NR		NR		NR	
2-Chlorophenol	40	NR		NR		NR		NR		NR		NR		NR		NR	
2-Methylnaphthalene	30	NR		NR		NR		NR		NR		NR		NR		NR	
2-Methylphenol	50	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-23/46-50**		**GWS-23/71-75**		**GWS-23/96-100**		**GWS-24/0-15**		**GWS-24/46-50**		**GWS-24/71-75**		**GWS-24/96-100**		**GWS-25/0-15**	
Screened Interval (bgs.)	Higher of PQLs	46' - 50'		71' - 75'		96' - 100'		0' - 15'		46' - 50'		71' - 75'		96' - 100'		**0' - 15'**	
Lab Sample ID	and GWQC	460-178560-2		460-178560-3		460-178560-4		460-178647-1		460-178647-2		460-178647-3		460-178793-1		460-178876-1	
Sampling Date	2019	4/1/2019		4/1/2019		4/1/2019		4/2/2019		4/2/2019		4/2/2019		4/2/2019		4/4/2019	
BN BY 8270D (ug/l) - Continued																	
2-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
2-Nitrophenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
3,3'-Dichlorobenzidine	30	NR		NR		NR		NR		NR		NR		NR		NR	
3-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4,6-Dinitro-2-methylphenol	0.7	NR		NR		NR		NR		NR		NR		NR		NR	
4-Bromophenyl phenyl ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Chloro-3-methylphenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Chlorophenyl phenyl ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Methylphenol	50	NR		NR		NR		NR		NR		NR		NR		NR	
4-Nitroaniline	NA	NR		NR		NR		NR		NR		NR		NR		NR	
4-Nitrophenol	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Acenaphthene	400	NR		NR		NR		NR		NR		NR		NR		NR	
Acenaphthylene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Anthracene	2000	NR		NR		NR		NR		NR		NR		NR		NR	
Benzidine	20	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[g,h,i]perylene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[k]fluoranthene	0.5	NR		NR		NR		NR		NR		NR		NR		NR	
bis (2-chloroisopropyl) ether	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-chloroethoxy)methane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-ethylhexyl) phthalate	3	NR		NR		NR		NR		NR		NR		NR		NR	
Butyl benzyl phthalate	100	NR		NR		NR		NR		NR		NR		NR		NR	
Carbazole	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Chrysene	5	NR		NR		NR		NR		NR		NR		NR		NR	
Dibenzofuran	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Diethyl phthalate	6000	NR		NR		NR		NR		NR		NR		NR		NR	
Dimethyl phthalate	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Di-n-butyl phthalate	700	NR		NR		NR		NR		NR		NR		NR		NR	
Di-n-octyl phthalate	100	NR		NR		NR		NR		NR		NR		NR		NR	
Fluoranthene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Fluorene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorobutadiene	1	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorocyclopentadiene	40	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachloroethane	7	NR		NR		NR		NR		NR		NR		NR		NR	
Isophorone	40	NR		NR		NR		NR		NR		NR		NR		NR	
Naphthalene	300	NR		NR		NR		NR		NR		NR		NR		NR	
Nitrobenzene	6	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodi-n-propylamine	10	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodiphenylamine	10	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-23/46-50**		**GWS-23/71-75**		**GWS-23/96-100**		**GWS-24/0-15**		**GWS-24/46-50**		**GWS-24/71-75**		**GWS-24/96-100**		**GWS-25/0-15**	
Screened Interval (bgs.)	Higher of PQLs	46' - 50'		71' - 75'		96' - 100'		0' - 15'		46' - 50'		71' - 75'		96' - 100'		**0' - 15'**	
Lab Sample ID	and GWQC	460-178560-2		460-178560-3		460-178560-4		460-178647-1		460-178647-2		460-178647-3		460-178793-1		460-178876-1	
Sampling Date	2019	4/1/2019		4/1/2019		4/1/2019		4/2/2019		4/2/2019		4/2/2019		4/2/2019		4/4/2019	
BN BY 8270D (ug/l) - Continued																	
Phenanthrene	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Phenol	2000	NR		NR		NR		NR		NR		NR		NR		NR	
Pyrene	200	NR		NR		NR		NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Total Estimated Conc. (TICs)	500	NR		NR		NR		NR		NR		NR		NR		NR	
BN SIM BY 8270D SIM (ug/l)																	
1,4-Dioxane	0.4	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[a]anthracene	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[a]pyrene	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Benzo[b]fluoranthene	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
Bis(2-chloroethyl)ether	7	NR		NR		NR		NR		NR		NR		NR		NR	
Dibenz(a,h)anthracene	0.3	NR		NR		NR		NR		NR		NR		NR		NR	
Hexachlorobenzene	0.02	NR		NR		NR		NR		NR		NR		NR		NR	
Indeno[1,2,3-cd]pyrene	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
N-Nitrosodimethylamine	0.8	NR		NR		NR		NR		NR		NR		NR		NR	
Pentachlorophenol	0.3	NR		NR		NR		NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR		NR		NR		NR	
PESTICIDES BY 8081B (ug/l)																	
4,4'-DDD	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
4,4'-DDE	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
4,4'-DDT	0.1	NR		NR		NR		NR		NR		NR		NR		NR	
Aldrin	0.04	NR		NR		NR		NR		NR		NR		NR		NR	
alpha-BHC	0.02	NR		NR		NR		NR		NR		NR		NR		NR	
beta-BHC	0.04	NR		NR		NR		NR		NR		NR		NR		NR	
Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
cis-Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	
delta-BHC	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Dieldrin	0.03	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan I	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan II	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endosulfan sulfate	40	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin	2	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin aldehyde	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Endrin ketone	NA	NR		NR		NR		NR		NR		NR		NR		NR	
gamma-BHC (Lindane)	0.03	NR		NR		NR		NR		NR		NR		NR		NR	
Heptachlor	0.05	NR		NR		NR		NR		NR		NR		NR		NR	
Heptachlor epoxide	0.2	NR		NR		NR		NR		NR		NR		NR		NR	
Methoxychlor	40	NR		NR		NR		NR		NR		NR		NR		NR	
Toxaphene	2	NR		NR		NR		NR		NR		NR		NR		NR	
trans-Chlordane	NA	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-23/46-50**		**GWS-23/71-75**		**GWS-23/96-100**		**GWS-24/0-15**		**GWS-24/46-50**		**GWS-24/71-75**		**GWS-24/96-100**		**GWS-25/0-15**	
Screened Interval (bgs.)	Higher of PQLs	46' - 50'		71' - 75'		96' - 100'		0' - 15'		46' - 50'		71' - 75'		96' - 100'		**0' - 15'**	
Lab Sample ID	and GWQC	460-178560-2		460-178560-3		460-178560-4		460-178647-1		460-178647-2		460-178647-3		460-178793-1		460-178876-1	
Sampling Date	2019	4/1/2019		4/1/2019		4/1/2019		4/2/2019		4/2/2019		4/2/2019		4/2/2019		4/4/2019	
PCBs BY 8082A (ug/l)																	
Aroclor 1016	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1221	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1232	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1242	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1248	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1254	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1260	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1262	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Aroclor 1268	NA	NR		NR		NR		NR		NR		NR		NR		NR	
METALS BY 6020B (ug/l)																	
Aluminum	200	NR		NR		NR		NR		NR		NR		NR		NR	
Antimony	6	NR		NR		NR		NR		NR		NR		NR		NR	
Arsenic	3	NR		NR		NR		NR		NR		NR		NR		NR	
Barium	6000	NR		NR		NR		NR		NR		NR		NR		NR	
Beryllium	1	NR		NR		NR		NR		NR		NR		NR		NR	
Cadmium	4	NR		NR		NR		NR		NR		NR		NR		NR	
Calcium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Chromium	70	NR		NR		NR		NR		NR		NR		NR		NR	
Cobalt	100	NR		NR		NR		NR		NR		NR		NR		NR	
Copper	1300	NR		NR		NR		NR		NR		NR		NR		NR	
Iron	300	NR		NR		NR		NR		NR		NR		NR		NR	
Lead	5	NR		NR		NR		NR		NR		NR		NR		NR	
Magnesium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Manganese	50	NR		NR		NR		NR		NR		NR		NR		NR	
Nickel	100	NR		NR		NR		NR		NR		NR		NR		NR	
Potassium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Selenium	40	NR		NR		NR		NR		NR		NR		NR		NR	
Silver	40	NR		NR		NR		NR		NR		NR		NR		NR	
Sodium	50000	NR		NR		NR		NR		NR		NR		NR		NR	
Thallium	2	NR		NR		NR		NR		NR		NR		NR		NR	
Vanadium	NA	NR		NR		NR		NR		NR		NR		NR		NR	
Zinc	2000	NR		NR		NR		NR		NR		NR		NR		NR	
MERCURY BY 7470A (ug/l)																	
Mercury	2	NR		NR		NR		NR		NR		NR		NR		NR	
CYANIDE BY 9012B (ug/l)																	
Cyanide, Total	NA	NR		NR		NR		NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-23/46-50**		**GWS-23/71-75**		**GWS-23/96-100**		**GWS-24/0-15**		**GWS-24/46-50**		**GWS-24/71-75**		**GWS-24/96-100**		**GWS-25/0-15**	
Screened Interval (bgs.)	Higher of PQLs	46' - 50'		71' - 75'		96' - 100'		0' - 15'		46' - 50'		71' - 75'		96' - 100'		**0' - 15'**	
Lab Sample ID	and GWQC	460-178560-2		460-178560-3		460-178560-4		460-178647-1		460-178647-2		460-178647-3		460-178793-1		460-178876-1	
Sampling Date	2019	4/1/2019		4/1/2019		4/1/2019		4/2/2019		4/2/2019		4/2/2019		4/2/2019		4/4/2019	
AMMONIA BY 350.1 (mg/l)																	
Ammonia	3	**8.6**		NR		NR		0.15	J	0.23		NR		NR		0.24	
TDS BY SM 2540C (mg/l)																	
Total Dissolved Solids	500	**764**		NR		NR		98.0		**868**		NR		NR		**1590**	
NITRATE BY 300.0 (mg/l)		**Method 353.2**						**Method 353.2**		**Method 353.2**						**Method 353.2**	
Nitrate as N	10	0.55		NR		NR		4.3		**54.5**		NR		NR		**110**	
WATER BY 537 (MODIFIED) (ng/l)																	
Perfluorooctanesulfonic acid (PFOS)	10	**36.8**		NR		NR		1.06	J	**18.7**		NR		NR		0.62	J
Perfluorooctanoic acid (PFOA)	10	**37.4**		NR		NR		4.26		**39.6**		NR		NR		**15.7**	

Qualifiers:
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - LCS or LCSD is outside acceptance limits.
* - RPD of the LCS and LCSD exceeds the control limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Note:
NA - No Standard
NR - Not Analyzed
GW - Groundwater
ug/l - micrograms per liter
PQL - Practical Quantitation Level
TICS - Tentatively Identified Compounds
GWQC - Groundwater Quality Criteria
Exceeds the NJDEP GWQC

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-25/46-50**		**GWS-25/71-75**		**GWS-25/96-100**		**FB-BAILER**		**FB-TUBE**	
Screened Interval (bgs.)	Higher of PQLs	**46' - 50'**		**71' - 75'**		**96' - 100'**		**--**		**--**	
Lab Sample ID	and GWQC	460-178876-2		460-178876-3		460-178876-4		320-48473-1		320-48473-2	
Sampling Date	2019	4/4/2019		4/4/2019		4/4/2019		3/18/2019		3/18/2019	
VOC BY 8260C (ug/l)											
1,1,1-Trichloroethane	30	0.24	U	0.24	U	0.24	U	NR		NR	
1,1,2,2-Tetrachloroethane	1	0.37	U	0.37	U	0.37	U	NR		NR	
1,1,2-Trichloroethane	3	0.43	U	0.43	U	0.43	U	NR		NR	
1,1-Dichloroethane	50	0.26	U	0.47	J	0.26	U	NR		NR	
1,1-Dichloroethene	1	0.12	U	0.12	U	0.12	U	NR		NR	
1,2,3-Trichlorobenzene	NA	0.36	U	0.36	U	0.36	U	NR		NR	
1,2,4-Trichlorobenzene	9	0.37	U	0.37	U	0.37	U	NR		NR	
1,2,4-Trimethylbenzene	NA	NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	0.43	U	0.43	U	0.62	J	NR		NR	
1,2-Dichloroethane	2	0.43	U	0.43	U	0.43	U	NR		NR	
1,2-Dichloropropane	1	0.35	U	**4.2**		0.35	U	NR		NR	
1,3-Dichlorobenzene	600	0.34	U	0.34	U	0.34	U	NR		NR	
1,4-Dichlorobenzene	75	0.76	U	0.76	U	0.76	U	NR		NR	
2-Butanone	300	1.9	U	1.9	U	1.9	U	NR		NR	
2-Hexanone	40	2.9	U	2.9	U	2.9	U	NR		NR	
4-Methyl-2-pentanone	NA	2.7	U	2.7	U	2.7	U	NR		NR	
Acetone	6000	5.0	U	5.0	U	5.0	U	NR		NR	
Benzene	1	0.43	U	0.43	U	1.0		NR		NR	
Bromochloromethane	NA	0.41	U	0.41	U	0.41	U	NR		NR	
Bromodichloromethane	1	0.34	U	0.34	U	0.34	U	NR		NR	
Bromoform	4	0.54	U	0.54	U	0.54	U	NR		NR	
Bromomethane	10	1.0	U	1.0	U	1.0	U	NR		NR	
Carbon disulfide	700	0.16	U	0.63	J	0.28	J	NR		NR	
Carbon tetrachloride	1	0.21	U	0.21	U	0.21	U	NR		NR	
Chlorobenzene	50	0.38	U	0.38	U	0.56	J	NR		NR	
Chloroethane	NA	0.32	U	0.32	U	0.32	U	NR		NR	
Chloroform	70	0.33	U	0.33	U	0.33	U	NR		NR	
Chloromethane	NA	0.14	U	0.14	U	0.14	U	NR		NR	
cis-1,2-Dichloroethene	70	**100**		**180**		2.5		NR		NR	
cis-1,3-Dichloropropene	NA	0.46	U	0.46	U	0.46	U	NR		NR	
Cyclohexane	NA	0.32	U	0.32	U	0.32	U	NR		NR	
Dibromochloromethane	1	0.28	U	0.28	U	0.28	U	NR		NR	
Dichlorodifluoromethane	1000	0.12	U	0.12	U	0.12	U	NR		NR	
Ethylbenzene	700	0.30	U	0.30	U	0.30	U	NR		NR	
Freon TF	20000	0.31	U	0.31	U	0.31	U	NR		NR	
Isopropylbenzene	700	0.34	U	0.34	U	0.34	U	NR		NR	
Methyl acetate	7000	0.31	U	0.31	U	0.31	U	NR		NR	
Methylcyclohexane	NA	0.26	U	0.26	U	0.26	U	NR		NR	
Methylene Chloride	3	0.32	U	0.32	U	0.69	J	NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-25/46-50**		**GWS-25/71-75**		**GWS-25/96-100**		**FB-BAILER**		**FB-TUBE**	
Screened Interval (bgs.)	Higher of PQLs	**46' - 50'**		**71' - 75'**		**96' - 100'**		**--**		**--**	
Lab Sample ID	and GWQC	460-178876-2		460-178876-3		460-178876-4		320-48473-1		320-48473-2	
Sampling Date	2019	4/4/2019		4/4/2019		4/4/2019		3/18/2019		3/18/2019	
VOC BY 8260C (ug/l) - Continued											
MTBE	70	0.47	U	0.47	U	0.47	U	NR		NR	
Naphthalene	300	NR		NR		NR		NR		NR	
Styrene	100	0.42	U	0.42	U	0.42	U	NR		NR	
TBA	100	8.3	U	8.3	U	8.3	U	NR		NR	
Tetrachloroethene	1	0.25	U	0.25	U	0.25	U	NR		NR	
Toluene	600	0.38	U	0.38	U	0.38	U	NR		NR	
trans-1,2-Dichloroethene	100	1.4		1.3		0.24	U	NR		NR	
trans-1,3-Dichloropropene	NA	0.49	U	0.49	U	0.49	U	NR		NR	
Trichloroethene	1	**9.8**		0.53	J	**1.2**		NR		NR	
Trichlorofluoromethane	2000	0.14	U	0.14	U	0.14	U	NR		NR	
Vinyl chloride	1	0.17	U	0.17	U	**1.1**		NR		NR	
Xylenes, Total	1000	0.30	U	0.30	U	0.30	U	NR		NR	
Total Conc	NA	111.2		187.13		7.95		NR		NR	
Total Estimated Conc. (TICs)	500	0.0*T		13.0		16.0		NR		NR	
VO SIM BY 8260C SIM (ug/l)											
1,2,3-Trichloropropane	0.03	0.0030	U	0.0030	U	0.0030	U	NR		NR	
1,2-Dibromo-3-Chloropropane	0.02	0.0040	U	0.0040	U	0.0040	U	NR		NR	
1,4-Dioxane	0.4	0.20	U	**0.51**		**0.87**		NR		NR	
Ethylene Dibromide	0.03	0.0010	U	0.0010	U	0.0010	U	NR		NR	
Total Conc	NA	0.0		0.51		0.87		NR		NR	
BN BY 8270D (ug/l)											
1,2,4,5-Tetrachlorobenzene	NA	NR		NR		NR		NR		NR	
1,2,4-Trichlorobenzene	9	NR		NR		NR		NR		NR	
1,2-Dichlorobenzene	600	NR		NR		NR		NR		NR	
1,3-Dichlorobenzene	600	NR		NR		NR		NR		NR	
1,4-Dichlorobenzene	75	NR		NR		NR		NR		NR	
1-Methylnaphthalene	NA	NR		NR		NR		NR		NR	
2,3,4,6-Tetrachlorophenol	200	NR		NR		NR		NR		NR	
2,4,5-Trichlorophenol	700	NR		NR		NR		NR		NR	
2,4,6-Trichlorophenol	20	NR		NR		NR		NR		NR	
2,4-Dichlorophenol	20	NR		NR		NR		NR		NR	
2,4-Dimethylphenol	100	NR		NR		NR		NR		NR	
2,4-Dinitrophenol	40	NR		NR		NR		NR		NR	
2,4-Dinitrotoluene	NA	NR		NR		NR		NR		NR	
2,6-Dinitrotoluene	NA	NR		NR		NR		NR		NR	
2-Chloronaphthalene	600	NR		NR		NR		NR		NR	
2-Chlorophenol	40	NR		NR		NR		NR		NR	
2-Methylnaphthalene	30	NR		NR		NR		NR		NR	
2-Methylphenol	50	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-25/46-50**		**GWS-25/71-75**		**GWS-25/96-100**		**FB-BAILER**		**FB-TUBE**	
Screened Interval (bgs.)	Higher of PQLs	**46' - 50'**		**71' - 75'**		**96' - 100'**		**--**		**--**	
Lab Sample ID	and GWQC	460-178876-2		460-178876-3		460-178876-4		320-48473-1		320-48473-2	
Sampling Date	2019	4/4/2019		4/4/2019		4/4/2019		3/18/2019		3/18/2019	
BN BY 8270D (ug/l) - Continued											
2-Nitroaniline	NA	NR		NR		NR		NR		NR	
2-Nitrophenol	NA	NR		NR		NR		NR		NR	
3,3'-Dichlorobenzidine	30	NR		NR		NR		NR		NR	
3-Nitroaniline	NA	NR		NR		NR		NR		NR	
4,6-Dinitro-2-methylphenol	0.7	NR		NR		NR		NR		NR	
4-Bromophenyl phenyl ether	NA	NR		NR		NR		NR		NR	
4-Chloro-3-methylphenol	NA	NR		NR		NR		NR		NR	
4-Chlorophenyl phenyl ether	NA	NR		NR		NR		NR		NR	
4-Methylphenol	50	NR		NR		NR		NR		NR	
4-Nitroaniline	NA	NR		NR		NR		NR		NR	
4-Nitrophenol	NA	NR		NR		NR		NR		NR	
Acenaphthene	400	NR		NR		NR		NR		NR	
Acenaphthylene	NA	NR		NR		NR		NR		NR	
Anthracene	2000	NR		NR		NR		NR		NR	
Benzidine	20	NR		NR		NR		NR		NR	
Benzo[g,h,i]perylene	NA	NR		NR		NR		NR		NR	
Benzo[k]fluoranthene	0.5	NR		NR		NR		NR		NR	
bis (2-chloroisopropyl) ether	NA	NR		NR		NR		NR		NR	
Bis(2-chloroethoxy)methane	NA	NR		NR		NR		NR		NR	
Bis(2-ethylhexyl) phthalate	3	NR		NR		NR		NR		NR	
Butyl benzyl phthalate	100	NR		NR		NR		NR		NR	
Carbazole	NA	NR		NR		NR		NR		NR	
Chrysene	5	NR		NR		NR		NR		NR	
Dibenzofuran	NA	NR		NR		NR		NR		NR	
Diethyl phthalate	6000	NR		NR		NR		NR		NR	
Dimethyl phthalate	NA	NR		NR		NR		NR		NR	
Di-n-butyl phthalate	700	NR		NR		NR		NR		NR	
Di-n-octyl phthalate	100	NR		NR		NR		NR		NR	
Fluoranthene	300	NR		NR		NR		NR		NR	
Fluorene	300	NR		NR		NR		NR		NR	
Hexachlorobutadiene	1	NR		NR		NR		NR		NR	
Hexachlorocyclopentadiene	40	NR		NR		NR		NR		NR	
Hexachloroethane	7	NR		NR		NR		NR		NR	
Isophorone	40	NR		NR		NR		NR		NR	
Naphthalene	300	NR		NR		NR		NR		NR	
Nitrobenzene	6	NR		NR		NR		NR		NR	
N-Nitrosodi-n-propylamine	10	NR		NR		NR		NR		NR	
N-Nitrosodiphenylamine	10	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-25/46-50**		**GWS-25/71-75**		**GWS-25/96-100**		**FB-BAILER**		**FB-TUBE**	
Screened Interval (bgs.)	Higher of PQLs	**46' - 50'**		**71' - 75'**		**96' - 100'**		**--**		**--**	
Lab Sample ID	and GWQC	460-178876-2		460-178876-3		460-178876-4		320-48473-1		320-48473-2	
Sampling Date	2019	4/4/2019		4/4/2019		4/4/2019		3/18/2019		3/18/2019	
BN BY 8270D (ug/l) - Continued											
Phenanthrene	NA	NR		NR		NR		NR		NR	
Phenol	2000	NR		NR		NR		NR		NR	
Pyrene	200	NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR	
Total Estimated Conc. (TICs)	500	NR		NR		NR		NR		NR	
BN SIM BY 8270D SIM (ug/l)											
1,4-Dioxane	0.4	NR		NR		NR		NR		NR	
Benzo[a]anthracene	0.1	NR		NR		NR		NR		NR	
Benzo[a]pyrene	0.1	NR		NR		NR		NR		NR	
Benzo[b]fluoranthene	0.2	NR		NR		NR		NR		NR	
Bis(2-chloroethyl)ether	7	NR		NR		NR		NR		NR	
Dibenz(a,h)anthracene	0.3	NR		NR		NR		NR		NR	
Hexachlorobenzene	0.02	NR		NR		NR		NR		NR	
Indeno[1,2,3-cd]pyrene	0.2	NR		NR		NR		NR		NR	
N-Nitrosodimethylamine	0.8	NR		NR		NR		NR		NR	
Pentachlorophenol	0.3	NR		NR		NR		NR		NR	
Total Conc	NA	NR		NR		NR		NR		NR	
PESTICIDES BY 8081B (ug/l)											
4,4'-DDD	0.1	NR		NR		NR		NR		NR	
4,4'-DDE	0.1	NR		NR		NR		NR		NR	
4,4'-DDT	0.1	NR		NR		NR		NR		NR	
Aldrin	0.04	NR		NR		NR		NR		NR	
alpha-BHC	0.02	NR		NR		NR		NR		NR	
beta-BHC	0.04	NR		NR		NR		NR		NR	
Chlordane	NA	NR		NR		NR		NR		NR	
cis-Chlordane	NA	NR		NR		NR		NR		NR	
delta-BHC	NA	NR		NR		NR		NR		NR	
Dieldrin	0.03	NR		NR		NR		NR		NR	
Endosulfan I	40	NR		NR		NR		NR		NR	
Endosulfan II	40	NR		NR		NR		NR		NR	
Endosulfan sulfate	40	NR		NR		NR		NR		NR	
Endrin	2	NR		NR		NR		NR		NR	
Endrin aldehyde	NA	NR		NR		NR		NR		NR	
Endrin ketone	NA	NR		NR		NR		NR		NR	
gamma-BHC (Lindane)	0.03	NR		NR		NR		NR		NR	
Heptachlor	0.05	NR		NR		NR		NR		NR	
Heptachlor epoxide	0.2	NR		NR		NR		NR		NR	
Methoxychlor	40	NR		NR		NR		NR		NR	
Toxaphene	2	NR		NR		NR		NR		NR	
trans-Chlordane	NA	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-25/46-50**		**GWS-25/71-75**		**GWS-25/96-100**		**FB-BAILER**		**FB-TUBE**	
Screened Interval (bgs.)	Higher of PQLs	**46' - 50'**		**71' - 75'**		**96' - 100'**		**--**		**--**	
Lab Sample ID	and GWQC	460-178876-2		460-178876-3		460-178876-4		320-48473-1		320-48473-2	
Sampling Date	2019	4/4/2019		4/4/2019		4/4/2019		3/18/2019		3/18/2019	
PCBs BY 8082A (ug/l)											
Aroclor 1016	NA	NR		NR		NR		NR		NR	
Aroclor 1221	NA	NR		NR		NR		NR		NR	
Aroclor 1232	NA	NR		NR		NR		NR		NR	
Aroclor 1242	NA	NR		NR		NR		NR		NR	
Aroclor 1248	NA	NR		NR		NR		NR		NR	
Aroclor 1254	NA	NR		NR		NR		NR		NR	
Aroclor 1260	NA	NR		NR		NR		NR		NR	
Aroclor 1262	NA	NR		NR		NR		NR		NR	
Aroclor 1268	NA	NR		NR		NR		NR		NR	
METALS BY 6020B (ug/l)											
Aluminum	200	NR		NR		NR		NR		NR	
Antimony	6	NR		NR		NR		NR		NR	
Arsenic	3	NR		NR		NR		NR		NR	
Barium	6000	NR		NR		NR		NR		NR	
Beryllium	1	NR		NR		NR		NR		NR	
Cadmium	4	NR		NR		NR		NR		NR	
Calcium	NA	NR		NR		NR		NR		NR	
Chromium	70	NR		NR		NR		NR		NR	
Cobalt	100	NR		NR		NR		NR		NR	
Copper	1300	NR		NR		NR		NR		NR	
Iron	300	NR		NR		NR		NR		NR	
Lead	5	NR		NR		NR		NR		NR	
Magnesium	NA	NR		NR		NR		NR		NR	
Manganese	50	NR		NR		NR		NR		NR	
Nickel	100	NR		NR		NR		NR		NR	
Potassium	NA	NR		NR		NR		NR		NR	
Selenium	40	NR		NR		NR		NR		NR	
Silver	40	NR		NR		NR		NR		NR	
Sodium	50000	NR		NR		NR		NR		NR	
Thallium	2	NR		NR		NR		NR		NR	
Vanadium	NA	NR		NR		NR		NR		NR	
Zinc	2000	NR		NR		NR		NR		NR	
MERCURY BY 7470A (ug/l)											
Mercury	2	NR		NR		NR		NR		NR	
CYANIDE BY 9012B (ug/l)											
Cyanide, Total	NA	NR		NR		NR		NR		NR	

TABLE 3
Summary of Remedial Investigation Analytical Results - Groundwater
Buena Vista Twp. Public Works Yard
430 Union Road
Buena Vista Township, Atlantic County, New Jersey

Client ID	Class II-A	**GWS-25/46-50**		**GWS-25/71-75**		**GWS-25/96-100**		**FB-BAILER**		**FB-TUBE**	
Screened Interval (bgs.)	Higher of PQLs	**46' - 50'**		**71' - 75'**		**96' - 100'**		**--**		**--**	
Lab Sample ID	and GWQC	460-178876-2		460-178876-3		460-178876-4		320-48473-1		320-48473-2	
Sampling Date	2019	4/4/2019		4/4/2019		4/4/2019		3/18/2019		3/18/2019	
AMMONIA BY 350.1 (mg/l)											
Ammonia	3	0.24		NR		NR		NR		NR	
TDS BY SM 2540C (mg/l)											
Total Dissolved Solids	500	**582**		NR		NR		NR		NR	
NITRATE BY 300.0 (mg/l)		**Method 353.2**									
Nitrate as N	10	**46.6**		NR		NR		NR		NR	
WATER BY 537 (MODIFIED) (ng/l)											
Perfluorooctanesulfonic acid (PFOS)	10	2.81		NR		NR		0.51	U	0.51	U
Perfluorooctanoic acid (PFOA)	10	**14.4**		NR		NR		0.8	U	0.8	U

Qualifiers:
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
* - LCS or LCSD is outside acceptance limits.
* - RPD of the LCS and LCSD exceeds the control limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
H - Sample was prepped or analyzed beyond the specified holding time.
D - Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Note:
NA - No Standard
NR - Not Analyzed
GW - Groundwater
ug/l - micrograms per liter
PQL - Practical Quantitation Level
TICS - Tentatively Identified Compounds
GWQC - Groundwater Quality Criteria
Exceeds the NJDEP GWQC

TABLE 4
Summary of POET Sampling Results
Kull Residence
4245 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7601, Lot 39

Client ID	Higher of PQLs	**4245 POST - TREATED**	**4245 POST - RAW**	**4245 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7080992	70101386	70101385
Sampling Date	Sept. 2018	2/28/2019	8/13/2019	2/28/2019
Unit	ug/l	ug/l	ug/l	ug/l
WATER BY 524.2				
Benzene	1	<0.5	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5	<0.5
Bromoform	4	<0.5	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5	<0.5
Chloroform	70	<0.5	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5	**25.3**	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	<0.5	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	<0.5	<0.5
Naphthalene	300	<0.5	<0.5	<0.5
Styrene	100	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5	<0.5
Toluene	600	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	1	<0.5	**3.1**	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5	<0.5
Vinyl chloride (VC)	1	<0.5	**15.7**	**4.5**
Xylene - m,p	--	<0.5	<0.5	<0.5
Xylene - o	--	<0.5	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5	<0.5
WATER BY 524.3				
1,2-Dibromoethane (EBD)	0.03	NT	<0.01	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	<0.01	NT
1,2,3-Trichloropropane	0.03	NT	<0.01	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Regalbuto Residence
4249 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7601, Lot 10

Client ID	Higher of PQLs	**4249 POST - RAW**	**4249 POST - TREATED**	**4249 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	70781480	70781390	70838221
Sampling Date	Sept. 2018	1/31/2019	1/31/2019	3/28/2019
Unit	ug/l	ug/l	ug/l	ug/l
WATER BY 524.2				
Benzene	1	<0.5	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5	<0.5
Bromoform	4	<0.5	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5	<0.5
Chloroform	70	<0.5	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	**10.7**	<0.5	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	<0.5	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	<0.5	<0.5
Naphthalene	300	<0.5	<0.5	<0.5
Styrene	100	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5	<0.5
Toluene	600	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	1	**0.77**	<0.5	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5	<0.5
Vinyl chloride (VC)	1	**10.3**	**1.2**	<0.5
Xylene - m,p	--	<0.5	<0.5	<0.5
Xylene - o	--	<0.5	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5	<0.5
WATER BY 524.3				
1,2-Dibromoethane (EBD)	0.03	NT	NT	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	NT	NT
1,2,3-Trichloropropane	0.03	NT	NT	NT

NOTE:

Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Bylone Residence
4254 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7101, Lot 39

Client ID	Higher of PQLs	**4254 POST - RAW**	**4254 POST - RAW**
Lab Sample ID	or GWQC (Class-IIA)	7099029	7099030
Sampling Date	Sept. 2018	7/24/2019	7/24/2019
Unit	ug/l	ug/l	ug/l
WATER BY 524.2			
Benzene	1	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5
Bromoform	4	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5
Chloroform	70	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	**32.8**	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	**0.73**	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5
Methylene Chloride	3	**0.72**	<0.5
Methyl tert-butyl ether (MTBE)	70	**1.9**	<0.5
Naphthalene	300	<0.5	<0.5
Styrene	100	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5
Toluene	600	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5
Trichloroethylene (TCE)	1	**2.5**	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5
Vinyl chloride (VC)	1	**14.1**	**2.4**
Xylene - m,p	--	<0.5	<0.5
Xylene - o	--	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5
WATER BY 524.3			
1,2-Dibromoethane (EBD)	0.03	NT	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	NT
1,2,3-Trichloropropane	0.03	NT	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Lentz Residence
4268 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7101, Lot 37

Client ID	Higher of PQLs	**4268 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7081772
Sampling Date	Sept. 2018	3/6/2019
Unit	ug/l	ug/l
WATER BY 524.2		
Benzene	1	<0.5
Bromodichloromethane	1	<0.5
Bromoform	4	<0.5
Carbontetrachloride	1	<0.5
Chlorobenzene	50	<0.5
Chloroform	70	<0.5
Dibromochloromethane	1	<0.5
1,2-Dichlorobenzene	600	<0.5
1,3-Dichlorobenzene	600	<0.5
1,4-Dichlorobenzene	75	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5
Ethylbenzene	700	<0.5
Methylene Chloride	3	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5
Naphthalene	300	<0.5
Styrene	100	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5
Tetrachloroethylene (PCE)	1	<0.5
Toluene	600	<0.5
1,2,4-Trichlorobenzene	9	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5
Trichloroethylene (TCE)	1	<0.5
1,2,4-Trimethylbenzene	100	<0.5
Vinyl chloride (VC)	1	<0.5
Xylene - m,p	--	<0.5
Xylene - o	--	<0.5
Xylenes (Total)	1000	<0.5
WATER BY 524.3		
1,2-Dibromoethane (EBD)	0.03	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT
1,2,3-Trichloropropane	0.03	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary or POET Sampling Results
Gallino Residence
4273 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7601, Lot 13

Client ID	Higher of PQLs	**4273 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7089954
Sampling Date	Sept. 2018	5/14/2019
Unit	ug/l	ug/l
WATER BY 524.2		
Benzene	1	<0.5
Bromodichloromethane	1	<0.5
Bromoform	4	<0.5
Carbontetrachloride	1	<0.5
Chlorobenzene	50	<0.5
Chloroform	70	<0.5
Dibromochloromethane	1	<0.5
1,2-Dichlorobenzene	600	<0.5
1,3-Dichlorobenzene	600	<0.5
1,4-Dichlorobenzene	75	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	**0.55**
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5
Ethylbenzene	700	<0.5
Methylene Chloride	3	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5
Naphthalene	300	<0.5
Styrene	100	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5
Tetrachloroethylene (PCE)	1	<0.5
Toluene	600	<0.5
1,2,4-Trichlorobenzene	9	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5
Trichloroethylene (TCE)	1	<0.5
1,2,4-Trimethylbenzene	100	<0.5
Vinyl chloride (VC)	1	<0.5
Xylene - m,p	--	<0.5
Xylene - o	--	<0.5
Xylenes (Total)	1000	<0.5
WATER BY 524.3		
1,2-Dibromoethane (EBD)	0.03	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT
1,2,3-Trichloropropane	0.03	NT

NOTE:

Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Nicolo Residence
4301 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7001, Lot 1.01

Client ID	Higher of PQLs	**4301 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7089953
Sampling Date	Sept. 2018	5/14/2019
Unit	ug/l	ug/l
WATER BY 524.2		
Benzene	1	<0.5
Bromodichloromethane	1	<0.5
Bromoform	4	<0.5
Carbontetrachloride	1	<0.5
Chlorobenzene	50	<0.5
Chloroform	70	<0.5
Dibromochloromethane	1	<0.5
1,2-Dichlorobenzene	600	<0.5
1,3-Dichlorobenzene	600	<0.5
1,4-Dichlorobenzene	75	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5
Ethylbenzene	700	<0.5
Methylene Chloride	3	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5
Naphthalene	300	<0.5
Styrene	100	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5
Tetrachloroethylene (PCE)	1	<0.5
Toluene	600	<0.5
1,2,4-Trichlorobenzene	9	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5
Trichloroethylene (TCE)	1	<0.5
1,2,4-Trimethylbenzene	100	<0.5
Vinyl chloride (VC)	1	<0.5
Xylene - m,p	--	<0.5
Xylene - o	--	<0.5
Xylenes (Total)	1000	<0.5
WATER BY 524.3		
1,2-Dibromoethane (EBD)	0.03	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT
1,2,3-Trichloropropane	0.03	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Jost Residence
4305 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7001, Lot 1.02

Client ID	Higher of PQLs	**4305 POST - TREATED**	**4305 POST - RAW**	**4305 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7080991	70101389	70101388
Sampling Date	Sept. 2018	2/28/2019	8/13/2019	8/13/2019
Unit	ug/l	ug/l	ug/l	ug/l
WATER BY 524.2				
Benzene	1	<0.5	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5	<0.5
Bromoform	4	<0.5	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5	<0.5
Chloroform	70	<0.5	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5	**31.4**	**32.4**
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	**0.83**	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	<0.5	<0.5
Naphthalene	300	<0.5	<0.5	<0.5
Styrene	100	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5	<0.5
Toluene	600	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	1	<0.5	**7.4**	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5	<0.5
Vinyl chloride (VC)	1	<0.5	<0.5	<0.5
Xylene - m,p	--	<0.5	<0.5	<0.5
Xylene - o	--	<0.5	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5	<0.5
WATER BY 524.3				
1,2-Dibromoethane (EBD)	0.03	NT	<0.01	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	<0.01	NT
1,2,3-Trichloropropane	0.03	NT	<0.01	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Fury Residence
4310 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7101, Lot 34.01

Client ID	Higher of PQLs	**4310 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7083168
Sampling Date	Sept. 2018	3/21/2019
Unit	ug/l	ug/l
WATER BY 524.2		
Benzene	1	<0.5
Bromodichloromethane	1	<0.5
Bromoform	4	<0.5
Carbontetrachloride	1	<0.5
Chlorobenzene	50	<0.5
Chloroform	70	<0.5
Dibromochloromethane	1	<0.5
1,2-Dichlorobenzene	600	<0.5
1,3-Dichlorobenzene	600	<0.5
1,4-Dichlorobenzene	75	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5
Ethylbenzene	700	<0.5
Methylene Chloride	3	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5
Naphthalene	300	<0.5
Styrene	100	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5
Tetrachloroethylene (PCE)	1	<0.5
Toluene	600	<0.5
1,2,4-Trichlorobenzene	9	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5
Trichloroethylene (TCE)	1	<0.5
1,2,4-Trimethylbenzene	100	<0.5
Vinyl chloride (VC)	1	<0.5
Xylene - m,p	--	<0.5
Xylene - o	--	<0.5
Xylenes (Total)	1000	<0.5
WATER BY 524.3		
1,2-Dibromoethane (EBD)	0.03	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT
1,2,3-Trichloropropane	0.03	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Gilbert Residence
4313 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7001, Lot 2

Client ID	Higher of PQLs	**4313 POST - RAW**	**4313 POST - TREATED**	**4313 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7078130	7078131	7099031
Sampling Date	Sept. 2018	1/30/2019	1/30/2019	7/24/2019
Unit	ug/l	ug/l	ug/l	ug/l
WATER BY 524.2				
Benzene	1	<0.5	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5	<0.5
Bromoform	4	<0.5	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5	<0.5
Chloroform	70	<0.5	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	**31.1**	<0.5	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	<0.5	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	<0.5	<0.5
Naphthalene	300	<0.5	<0.5	<0.5
Styrene	100	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5	<0.5
Toluene	600	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	1	**2.5**	<0.5	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5	<0.5
Vinyl chloride (VC)	1	**6.3**	<0.5	<0.5
Xylene - m,p	--	<0.5	<0.5	<0.5
Xylene - o	--	<0.5	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5	<0.5
WATER BY 524.3				
1,2-Dibromoethane (EBD)	0.03	NT	NT	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	NT	NT
1,2,3-Trichloropropane	0.03	NT	NT	NT

NOTE:

Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Speziali Residence
4316 Post Road
Buena Vista Township, Atlantic Conunty, NJ
Block 7101, Lot 34

Client ID	Higher of PQLs	**4316 POST - TREATED**	**4316 POST - RAW**	**4316 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7081770	70101383	70101384
Sampling Date	Sept. 2018	3/6/2019	8/13/2016	8/13/2019
Unit	ug/l	ug/l	ug/l	ug/l
WATER BY 524.2				
Benzene	1	<0.5	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5	<0.5
Bromoform	4	<0.5	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5	<0.5
Chloroform	70	<0.5	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5	**46.6**	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	<0.5	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	**2.2**	<0.5
Naphthalene	300	<0.5	<0.5	<0.5
Styrene	100	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5	<0.5
Toluene	600	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5	<0.5
Trichloroethylene (TCE)	1	<0.5	**45.5**	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5	<0.5
Vinyl chloride (VC)	1	<0.5	**14.3**	**0.52**
Xylene - m,p	--	<0.5	<0.5	<0.5
Xylene - o	--	<0.5	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5	<0.5
WATER BY 524.3				
1,2-Dibromoethane (EBD)	0.03	NT	<0.01	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	<0.01	NT
1,2,3-Trichloropropane	0.03	NT	<0.01	NT

NOTE:

Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Speziali Residence
4320 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7101, Lot 33

Client ID	Higher of PQLs	**4320 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7081768
Sampling Date	Sept. 2018	3/6/2019
Unit	ug/l	ug/l
WATER BY 524.2		
Benzene	1	<0.5
Bromodichloromethane	1	<0.5
Bromoform	4	<0.5
Carbontetrachloride	1	<0.5
Chlorobenzene	50	<0.5
Chloroform	70	<0.5
Dibromochloromethane	1	<0.5
1,2-Dichlorobenzene	600	<0.5
1,3-Dichlorobenzene	600	<0.5
1,4-Dichlorobenzene	75	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5
Ethylbenzene	700	<0.5
Methylene Chloride	3	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5
Naphthalene	300	<0.5
Styrene	100	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5
Tetrachloroethylene (PCE)	1	<0.5
Toluene	600	<0.5
1,2,4-Trichlorobenzene	9	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5
Trichloroethylene (TCE)	1	<0.5
1,2,4-Trimethylbenzene	100	<0.5
Vinyl chloride (VC)	1	<0.5
Xylene - m,p	--	<0.5
Xylene - o	--	<0.5
Xylenes (Total)	1000	<0.5
WATER BY 524.3		
1,2-Dibromoethane (EBD)	0.03	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT
1,2,3-Trichloropropane	0.03	NT

NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Doe Residence
4321 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7001, Lot 4

Client ID	Higher of PQLs	**4321 POST - RAW**	**4321 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7081767	7081768
Sampling Date	Sept. 2018	3/6/2019	3/6/2019
Unit	ug/l	ug/l	ug/l
WATER BY 524.2			
Benzene	1	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5
Bromoform	4	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5
Chloroform	70	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	**4.7**	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	<0.5
Naphthalene	300	<0.5	<0.5
Styrene	100	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5
Tetrachloroethylene (PCE)	1	**1.3**	<0.5
Toluene	600	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5
Trichloroethylene (TCE)	1	<0.5	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5
Vinyl chloride (VC)	1	<0.5	<0.5
Xylene - m,p	--	<0.5	<0.5
Xylene - o	--	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5
WATER BY 524.3			
1,2-Dibromoethane (EBD)	0.03	NT	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	NT
1,2,3-Trichloropropane	0.03	NT	NT

NOTE:

Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
Turchi Residence
4324 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7101, Lot 32

Client ID	Higher of PQLs	**POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7096504
Sampling Date	Sept. 2018	7/3/2019
Unit	ug/l	ug/l
WATER BY 524.2		
Benzene	1	<0.5
Bromodichloromethane	1	<0.5
Bromoform	4	<0.5
Carbontetrachloride	1	<0.5
Chlorobenzene	50	<0.5
Chloroform	70	<0.5
Dibromochloromethane	1	<0.5
1,2-Dichlorobenzene	600	<0.5
1,3-Dichlorobenzene	600	<0.5
1,4-Dichlorobenzene	75	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5
Ethylbenzene	700	<0.5
Methylene Chloride	3	**0.72**
Methyl tert-butyl ether (MTBE)	70	<0.5
Naphthalene	300	<0.5
Styrene	100	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5
Tetrachloroethylene (PCE)	1	<0.5
Toluene	600	<0.5
1,2,4-Trichlorobenzene	9	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5
Trichloroethylene (TCE)	1	<0.5
1,2,4-Trimethylbenzene	100	<0.5
Vinyl chloride (VC)	1	<0.5
Xylene - m,p	--	<0.5
Xylene - o	--	<0.5
Xylenes (Total)	1000	<0.5
WATER BY 524.3		
1,2-Dibromoethane (EBD)	0.03	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT
1,2,3-Trichloropropane	0.03	NT

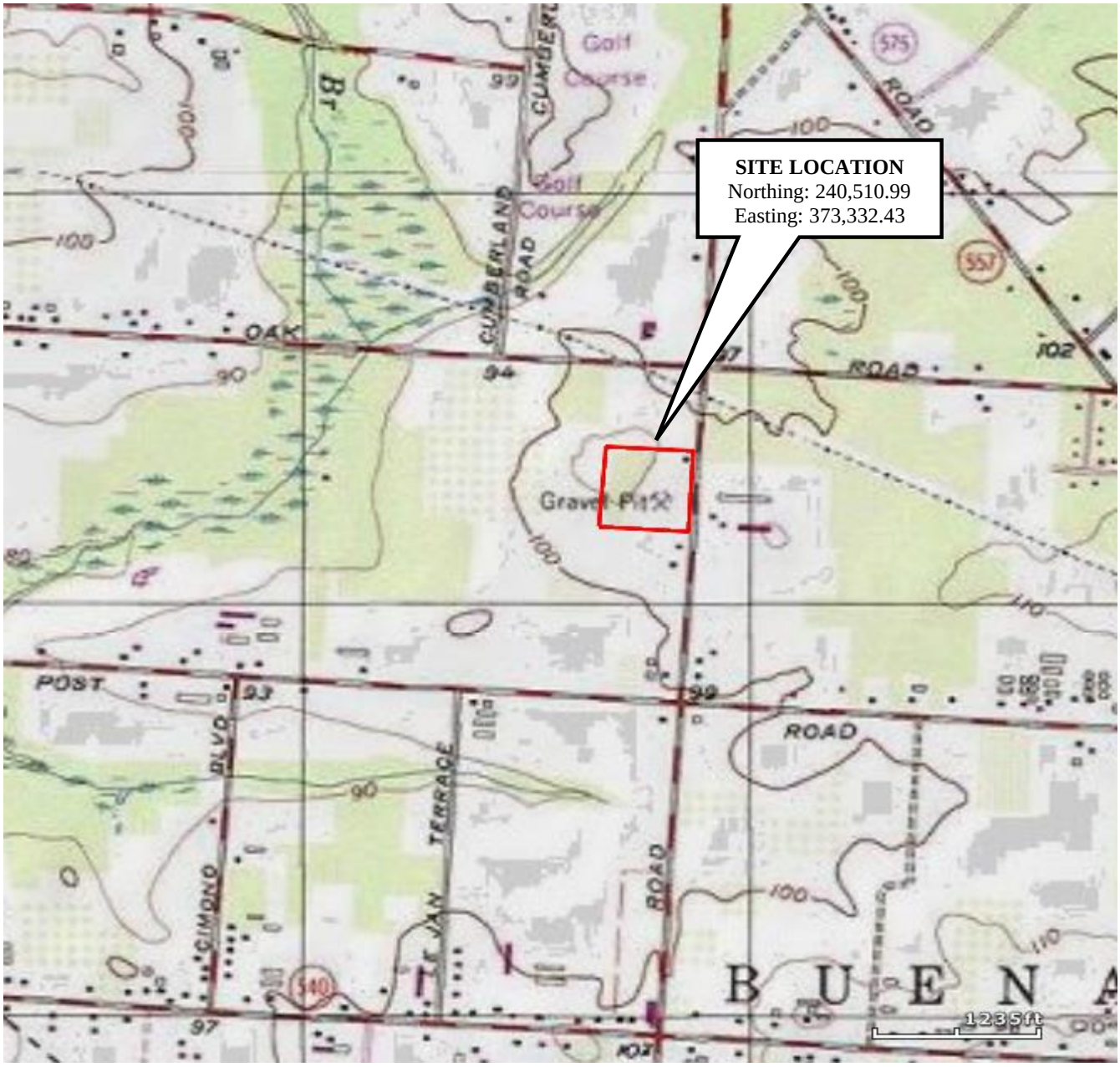
NOTE:
Highlighted concentration exceeds applicable standard.

TABLE 4
Summary of POET Sampling Results
PAFACOM, Inc.
4328 Post Road
Buena Vista Township, Atlantic County, NJ
Block 7101, Lot 31

Client ID	Higher of PQLs	**4328 POST - RAW**	**4328 POST - TREATED**
Lab Sample ID	or GWQC (Class-IIA)	7078150	7085630
Sampling Date	Sept. 2018	1/30/2019	4/11/2019
Unit	ug/l	ug/l	ug/l
WATER BY 524.2			
Benzene	1	<0.5	<0.5
Bromodichloromethane	1	<0.5	<0.5
Bromoform	4	<0.5	<0.5
Carbontetrachloride	1	<0.5	<0.5
Chlorobenzene	50	<0.5	<0.5
Chloroform	70	<0.5	<0.5
Dibromochloromethane	1	<0.5	<0.5
1,2-Dichlorobenzene	600	<0.5	<0.5
1,3-Dichlorobenzene	600	<0.5	<0.5
1,4-Dichlorobenzene	75	<0.5	<0.5
1,1-Dichloroethane (1,1-DCA)	50	<0.5	<0.5
1,2-Dichloroethane (1,2-DCA)	2	<0.5	<0.5
1,1-Dichloroethylene (1,1-DCE)	1	<0.5	<0.5
cis-1,2-Dichloroethylene (cis-1,2-DCE)	70	**12.6**	<0.5
trans-1,2-Dichloroethylene (trans-1,2-DCE)	100	<0.5	<0.5
1,2-Dichloropropane (1,2-DCP)	1	<0.5	<0.5
Ethylbenzene	700	<0.5	<0.5
Methylene Chloride	3	<0.5	<0.5
Methyl tert-butyl ether (MTBE)	70	<0.5	<0.5
Naphthalene	300	<0.5	<0.5
Styrene	100	<0.5	<0.5
1,1,1,2-Tetrachloroethane	1	<0.5	<0.5
Tetrachloroethylene (PCE)	1	<0.5	<0.5
Toluene	600	<0.5	<0.5
1,2,4-Trichlorobenzene	9	<0.5	<0.5
1,1,1-Trichloroethane (1,1,1-TCA)	30	<0.5	<0.5
1,1,2-Trichloroethane (1,1,2-TCA)	3	<0.5	<0.5
Trichloroethylene (TCE)	1	<0.5	<0.5
1,2,4-Trimethylbenzene	100	<0.5	<0.5
Vinyl chloride (VC)	1	**4.2**	<0.5
Xylene - m,p	--	<0.5	<0.5
Xylene - o	--	<0.5	<0.5
Xylenes (Total)	1000	<0.5	<0.5
WATER BY 524.3			
1,2-Dibromoethane (EBD)	0.03	NT	NT
1,2-Dibromo-3-Chloropropane (DBCP)	0.02	NT	NT
1,2,3-Trichloropropane	0.03	NT	NT

NOTE:
Highlighted concentration exceeds applicable standard.

FIGURES



USGS 7.5 MINUTE TOPOGRAPHIC MAP
FIVE POINTS QUADRANGLE - 1977

NORTH

BUENA VISTA TWP. PUBLIC WORKS YARD

430 UNION ROAD
BLOCK 7101, LOT 25

BUENA VISTA TOWNSHIP
ATLANTIC COUNTY, NJ

SITE LOCATION MAP

CALMAR ASSOCIATES LLC.

1415 13th Avenue
Dorothy, NJ 08317

DRWN: MT	RYAN K. SEIBERT, LSRP
CHK'D: RKS	SRP PI# 032698
APPD:	**FIGURE 1**

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-8/23.0-23.5
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165588-1
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/26/2018
VO+15 BY 8260C (mg/kg)				
2-Butanone	3100	44000	0.9	0.0022 J
Acetone	70000	NA	19	0.022
Methylene Chloride	46	230	0.01	0.00034 JB
Trichloroethene	3	10	0.01	0.00050 JB
BN+15 BY 8270D (mg/kg)				
Naphthalene	6	17	25	0.010 J
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	2910
Barium	16000	59000	2100	5.0 J
Calcium	NA	NA	NA	144 J
Chromium	NA	NA	NA	4.0
Iron	NA	NA	NA	636
Lead	400	800	90	1.9 J
Manganese	11000	5900	65	3.3
Nickel	1600	23000	48	2.4 J
Vanadium	78	1100	NA	5.2 J
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	ND
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-6/26.5-27.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165465-4
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/25/2018
VO+15 BY 8260C (mg/kg)				
Acetone	70000	NA	19	0.025
Carbon disulfide	7800	110000	6	0.00098 J
Methylene Chloride	46	230	0.01	0.00030 J
Trichloroethene	3	10	0.01	0.00047 JB
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	3670
Barium	16000	59000	2100	4.0 J
Chromium	NA	NA	NA	4.6
Iron	NA	NA	NA	844
Lead	400	800	90	2.0
Manganese	11000	5900	65	1.7 J
Nickel	1600	23000	48	2.3 J
Potassium	NA	NA	NA	80.5 J
Vanadium	78	1100	NA	5.0 J
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	ND
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-4/19.5-20.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165465-2
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/25/2018
VO+15 BY 8260C (mg/kg)				
Acetone	70000	NA	19	0.0046
Methylene Chloride	46	230	0.01	0.00025 J
Trichloroethene	3	10	0.01	0.00023 JB
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Barium	16000	59000	2100	5.5 J
Calcium	NA	NA	NA	107 J
Chromium	NA	NA	NA	5.0
Iron	NA	NA	NA	1420
Lead	400	800	90	2.1 J
Manganese	11000	5900	65	7.1
Nickel	1600	23000	48	2.5 J
Vanadium	78	1100	NA	5.9 J
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	ND
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-10/19.5-20.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165588-2
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/26/2018
VO+15 BY 8260C (mg/kg)				
2-Butanone	3100	44000	0.9	0.0061
Acetone	70000	NA	19	0.031
Benzene	2	5	0.005	0.00031 J
Chlorobenzene	510	7400	0.6	0.00061 J
Methylene Chloride	46	230	0.01	0.00028 JB
Trichloroethene	3	10	0.01	0.00015 JB
BN+15 BY 8270D (mg/kg)				
Naphthalene	6	17	25	0.031 J
PESTICIDES BY 8081B (mg/kg)				
4,4'-DDE	2	9	18	0.0024 J
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
Total EPH (C9-C40)	5,100	54,000	NA	44
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	5400
Arsenic	19	19	19	3.5
Barium	16000	59000	2100	52.4
Cadmium	78	78	2	0.51 J
Calcium	NA	NA	NA	2060
Chromium	NA	NA	NA	12.1
Cobalt	1600	590	90	1.5 J
Copper	3100	45000	11000	28.0
Iron	NA	NA	NA	16900
Lead	400	800	90	**172**
Magnesium	NA	NA	NA	171 J
Manganese	11000	5900	65	61.4
Nickel	1600	23000	48	8.6 J
Potassium	NA	NA	NA	169 J
Vanadium	78	1100	NA	11.3
Zinc	23000	110000	930	169
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	0.050
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	0.086 J

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-24/5-25.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165465-3
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/25/2018
VO+15 BY 8260C (mg/kg)				
Acetone	70000	NA	19	0.022
Carbon disulfide	7800	110000	6	0.0013
Methylene Chloride	46	230	0.01	0.00031 J
Trichloroethene	3	10	0.01	0.00049 JB
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	4620
Barium	16000	59000	2100	7.6 J
Chromium	NA	NA	NA	6.9
Iron	NA	NA	NA	991
Lead	400	800	90	2.6
Manganese	11000	5900	65	1.9 J
Nickel	1600	23000	48	3.1 J
Potassium	NA	NA	NA	75.7 J
Vanadium	78	1100	NA	5.4 J
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	ND
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-11/24.5-25.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165588-3
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/26/2018
VO+15 BY 8260C (mg/kg)				
Acetone	70000	NA	19	0.023
Carbon disulfide	7800	110000	6	0.00033 J
Methylene Chloride	46	230	0.01	0.00027 JB
BN+15 BY 8270D (mg/kg)				
Naphthalene	6	17	25	0.015 J
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
Total EPH (C9-C40)	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	4450
Barium	16000	59000	2100	7.1 J
Calcium	NA	NA	NA	307 J
Chromium	NA	NA	NA	6.8
Copper	3100	45000	11000	3.4 J
Iron	NA	NA	NA	3390
Lead	400	800	90	5.9
Manganese	11000	5900	65	13.5
Nickel	1600	23000	48	2.5 J
Potassium	NA	NA	NA	79.7 J
Vanadium	78	1100	NA	6.3 J
Zinc	23000	110000	930	31.9
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	ND
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-17/19.5-20.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177480-4
Sampling Date	Sept_2017	Sept_2017	Nov_2013	3/18/2019
VO+15 BY 8260C (mg/kg)				
Methylene Chloride	46	230	0.01	0.00037 J
BN+15 BY 8270D (mg/kg)				
2-Methylnaphthalene	230	2400	8	0.015 J
Benzo[a]anthracene	5	17	0.8	0.11
Benzo[a]pyrene	0.5	2	0.2	0.088
Benzo[b]fluoranthene	5	17	2	0.091
Benzo[g,h,i]perylene	380000	30000	NA	0.058 J
Benzo[k]fluoranthene	45	170	25	0.029 J
Bis(2-ethylhexyl) phthalate	35	140	1200	0.019 J
Chrysene	450	1700	80	0.13 J
Dibenz(a,h)anthracene	0.5	2	0.8	0.016 J
Fluoranthene	2300	24000	1300	0.14 J
Fluorene	2300	24000	170	0.034 J
Indeno[1,2,3-cd]pyrene	5	17	7	0.051
Phenanthrene	NA	300000	NA	0.23 J
Pyrene	1700	18000	840	0.27 J
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
				ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	2110
Barium	16000	59000	2100	5.2 J
Calcium	NA	NA	NA	66.0 J
Chromium	NA	NA	NA	4.2
Iron	NA	NA	NA	1190
Lead	400	800	90	1.7 J
Manganese	11000	5900	65	1.6 J
Nickel	1600	23000	48	1.4 J
Vanadium	78	1100	NA	5.8 J
MERCURY BY 7471B (mg/kg)				
				ND
CYANIDE BY 9012B (mg/kg)				
				ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-3/16.0-16.5
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165465-1
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/25/2018
VO+15 BY 8260C (mg/kg)				
2-Butanone	3100	44000	0.9	0.0032 J
Acetone	70000	NA	19	0.024
Carbon disulfide	7800	110000	6	0.00041 J
Methylene Chloride	46	230	0.01	0.00037 J
Trichloroethene	3	10	0.01	0.00095 B
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	**6730**
Arsenic	19	19	19	1.6 J
Barium	16000	59000	2100	13.5 J
Calcium	NA	NA	NA	145 J
Chromium	NA	NA	NA	8.3
Copper	3100	45000	11000	3.7 J
Iron	NA	NA	NA	2960
Lead	400	800	90	3.7
Manganese	11000	5900	65	3.1 J
Nickel	1600	23000	48	4.3 J
Potassium	NA	NA	NA	125 J
Vanadium	78	1100	NA	10.0 J
Zinc	23000	110000	930	24.0
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	0.025
CYANIDE BY 9012B (mg/kg)				
				ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-13/10.5-11.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-165593-1
Sampling Date	Sept_2017	Sept_2017	Nov_2013	9/27/2018
VO+15 BY 8260C (mg/kg)				
2-Butanone	3100	44000	0.9	0.0041 J
Acetone	70000	NA	19	0.033
Methylene Chloride	46	230	0.01	0.00034 J
Trichloroethene	3	10	0.01	0.00023 J
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
4,4'-DDE	2	9	18	0.0070 J
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
Total EPH (C9-C40)	5,100	54,000	NA	ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	**10400**
Arsenic	19	19	19	1.1 J
Barium	16000	59000	2100	14.5 J
Beryllium	16	140	0.7	0.096 J
Calcium	NA	NA	NA	490 J
Chromium	NA	NA	NA	14.6
Copper	3100	45000	11000	7.2
Iron	NA	NA	NA	6170
Lead	400	800	90	3.5
Magnesium	NA	NA	NA	69.7 J
Manganese	11000	5900	65	32.2
Nickel	1600	23000	48	6.3 J
Potassium	NA	NA	NA	124 J
Vanadium	78	1100	NA	17.0
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	ND
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total	47	680	20	0.14 J

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-16/11.5-12.0
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177480-3
Sampling Date	Sept_2017	Sept_2017	Nov_2013	3/18/2019
VO+15 BY 8260C (mg/kg)				
cis-1,2-Dichloroethene	230	560	0.3	0.0068
Trichloroethene	3	10	0.01	**0.011**
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
				ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	4740
Barium	16000	59000	2100	14.2 J
Chromium	NA	NA	NA	8.9
Copper	3100	45000	11000	3.8 J
Iron	NA	NA	NA	1910
Lead	400	800	90	2.1 J
Manganese	11000	5900	65	4.1
Nickel	1600	23000	48	4.6 J
Potassium	NA	NA	NA	71.2 J
Vanadium	78	1100	NA	7.9 J
MERCURY BY 7471B (mg/kg)				
				ND
CYANIDE BY 9012B (mg/kg)				
				ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-15/15.0-15.5
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177480-2
Sampling Date	Sept_2017	Sept_2017	Nov_2013	3/18/2019
VO+15 BY 8260C (mg/kg)				
Trichloroethene	3	10	0.01	0.00034 J
BN+15 BY 8270D (mg/kg)				
				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
				ND
NJDEP EPH				
				ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	1980
Barium	16000	59000	2100	5.5 J
Chromium	NA	NA	NA	2.8
Iron	NA	NA	NA	691
Lead	400	800	90	1.0 J
Manganese	11000	5900	65	2.0 J
Nickel	1600	23000	48	1.6 J
Vanadium	78	1100	NA	2.7 J
MERCURY BY 7471B (mg/kg)				
				ND
CYANIDE BY 9012B (mg/kg)				
				ND

Client ID	NJDEP SRS	NJDEP SRS	NJDEP	SB-14/15.0-15.5
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-177480-1
Sampling Date	Sept_2017	Sept_2017	Nov_2013	3/18/2019
VO+15 BY 8260C (mg/kg)				
Styrene	90	260	3	0.00015 J
BN+15 BY 8270D (mg/kg)				
3,3'-Dichlorobenzidine				ND
PESTICIDES BY 8081B (mg/kg)				
				ND
PCBs BY 8082A (mg/kg)				
Aroclor 1016				ND
NJDEP EPH				
				ND
METALS BY 6010D (mg/kg)				
Aluminum	78000	NA	6000	**7920**
Arsenic	19	19	19	3.1 J
Barium	16000	59000	2100	13.2 J
Beryllium	16	140	0.7	0.17 J
Chromium	NA	NA	NA	11.9
Copper	3100	45000	11000	6.1
Iron	NA	NA	NA	10600
Lead	400	800	90	3.1
Manganese	11000	5900	65	21.3
Nickel	1600	23000	48	3.9 J
Potassium	NA	NA	NA	94.8 J
Vanadium	78	1100	NA	40.3
MERCURY BY 7471B (mg/kg)				
Mercury	23	65	0.1	0.014 J
CYANIDE BY 9012B (mg/kg)				
Cyanide, Total (mg/kg)				ND

LEGEND:

- TAX BOUNDARY
- SOIL BORING LOCATION
- EXCEEDS NJDEP SOIL REMEDIATION STANDARD (SRS)
- J — RESULT IS LESS THAN THE RL BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE
- U — INDICATES THE ANALYTE WAS ANALYZED FOR BUT NOT DETECTED
- *T — THERE ARE NO TICS REPORTED FOR THE SAMPLE
- B — COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
- ND — NONE DETECT
- NA — NOT ANALYZED
- NR — MICROGRAM PER LITER
- mg/kg — MILLIGRAMS PER KILOGRAMS

0 250' 500'
SCALE IN FEET

SOIL SAMPLING ANALYTICAL RESULTS MAP

BUENA VISTA TOWNSHIP PUBLIC WORKS YARD
430 UNION ROAD
BUENA VISTA TOWNSHIP
ATLANTIC COUNTY, NEW JERSEY

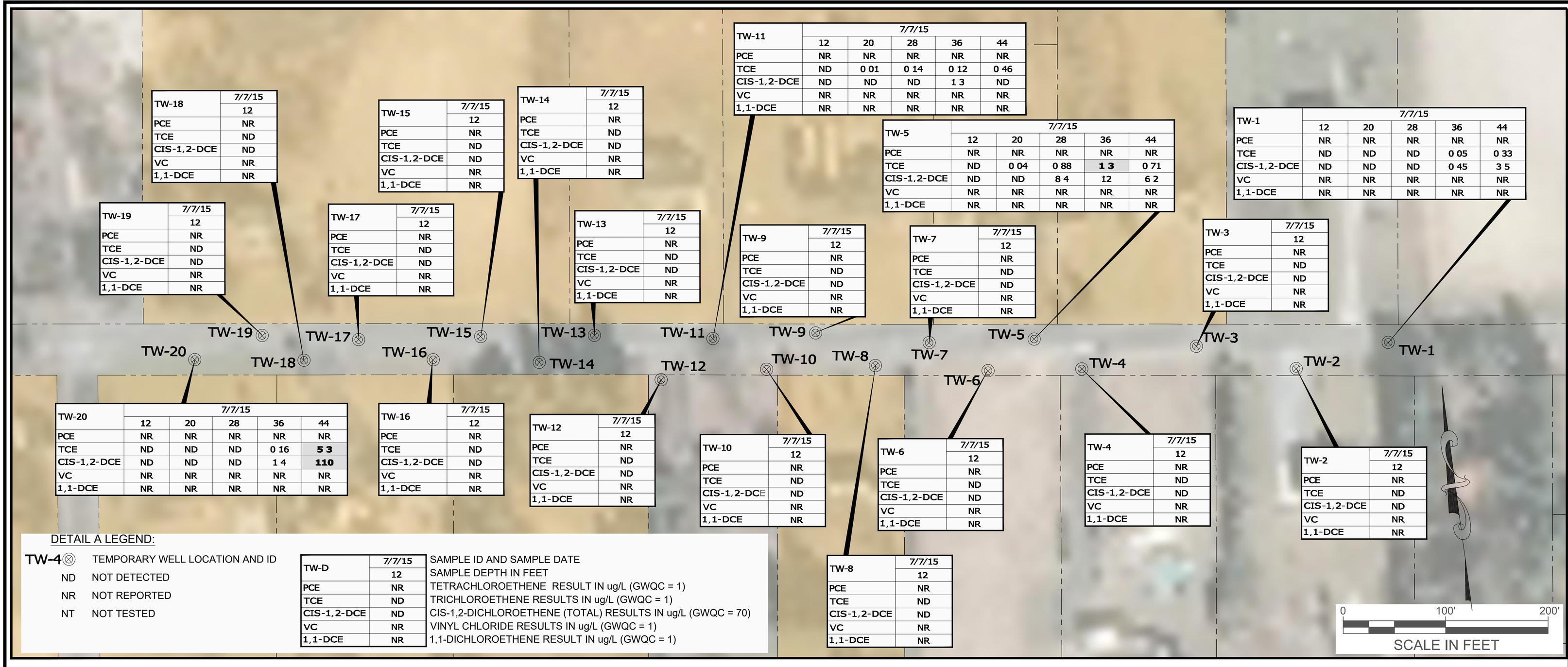
CALMAR Associates LLC.

DATE: SEPTEMBER 2019
SCALE: 1" = 250'

NJDEP SRP PI # 032698
Ryan K. Seibert, LSRP

Figure 2

BUENA_003



TW-18	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-15	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-14	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-11	7/7/15				
	12	20	28	36	44
PCE	NR	NR	NR	NR	NR
TCE	ND	0.01	0.14	0.12	0.46
CIS-1,2-DCE	ND	ND	ND	1.3	ND
VC	NR	NR	NR	NR	NR
1,1-DCE	NR	NR	NR	NR	NR

TW-5	7/7/15				
	12	20	28	36	44
PCE	NR	NR	NR	NR	NR
TCE	ND	0.04	0.88	1.3	0.71
CIS-1,2-DCE	ND	ND	8.4	12	6.2
VC	NR	NR	NR	NR	NR
1,1-DCE	NR	NR	NR	NR	NR

TW-1	7/7/15				
	12	20	28	36	44
PCE	NR	NR	NR	NR	NR
TCE	ND	ND	ND	0.05	0.33
CIS-1,2-DCE	ND	ND	ND	0.45	3.5
VC	NR	NR	NR	NR	NR
1,1-DCE	NR	NR	NR	NR	NR

TW-19	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-17	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-13	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-9	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-7	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-3	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-20	7/7/15				
	12	20	28	36	44
PCE	NR	NR	NR	NR	NR
TCE	ND	ND	ND	0.16	5.3
CIS-1,2-DCE	ND	ND	ND	1.4	110
VC	NR	NR	NR	NR	NR
1,1-DCE	NR	NR	NR	NR	NR

TW-16	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-12	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-10	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-6	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-4	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-2	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

TW-8	7/7/15
	12
PCE	NR
TCE	ND
CIS-1,2-DCE	ND
VC	NR
1,1-DCE	NR

DETAIL A LEGEND:

TW-4 TEMPORARY WELL LOCATION AND ID

ND NOT DETECTED

NR NOT REPORTED

NT NOT TESTED

TW-D	7/7/15	
	12	SAMPLE ID AND SAMPLE DATE / SAMPLE DEPTH IN FEET
PCE	NR	TETRACHLOROETHENE RESULT IN ug/L (GWQC = 1)
TCE	ND	TRICHLOROETHENE RESULTS IN ug/L (GWQC = 1)
CIS-1,2-DCE	ND	CIS-1,2-DICHLOROETHENE (TOTAL) RESULTS IN ug/L (GWQC = 70)
VC	NR	VINYL CHLORIDE RESULTS IN ug/L (GWQC = 1)
1,1-DCE	NR	1,1-DICHLOROETHENE RESULT IN ug/L (GWQC = 1)

DETAIL A

Client ID	Class II-A	MW-2 (MW-B)	MW-2 (MW-B)	MW-2 (MW-B)	MW-2	MW-2
Screened Interval (BGS.)	Higher of PQLs	19' - 39'	19' - 39'	19' - 39'	19' - 39'	19' - 39'
Lab Sample ID	and GWQC	M44245	M47350	L1630694-02	460-155405-2	320-48473-5
Sampling Date	2019	4/4/2014	10/23/2014	9/27/2016	5/3/2016	3/18/2019
VOC (ug/l)		Method 524.2	Method 524.2	Method 8260C	Method 8260C	
1,1,1-Trichloroethane	30	0.81	5.49	ND	0.59 J	NR
1,1-Dichloroethane	50	ND	4.76	ND	0.33 J	NR
1,1-Dichloroethene	1	0.73	5.16	ND	ND	NR
1,3-Dichlorobenzene	600	ND	0.61	ND	ND	NR
1,4-Dichlorobenzene	75	ND	0.58	0.44 J	ND	NR
Benzene	1	ND	ND	0.47 J	0.15 J	NR
Chlorobenzene	50	1.45	2.29	2.1	ND	NR
cis-1,2-Dichloroethene	70	410.8	1284	120	22	NR
trans-1,2-Dichloroethene	100	4.91	11.54	0.77 J	0.40 J	NR
Tetrachloroethene	1	ND	1.29	ND	ND	NR
Trichloroethene	1	82.5	936	8.7	30	NR
Vinyl chloride	1	102.3	195	ND	20	NR
Total Conc	NA	NR	NR	NR	73.47	NR
Total Estimated Conc. (TICs)	NA	NR	NR	2.0	0.0	NR
VO SIM BY 8260C SIM (ug/l)						
Total Conc	NA	NR	NR	NR	0.0	NR
BN BY 8270D (ug/l)						
Total Conc	NA	NR	NR	NR	0.0	NR
Total Estimated Conc. (TICs)	NA	NR	NR	NR	0.0	NR
BN SIM BY 8270D SIM (ug/l)						
1,4-Dioxane	0.4	NR	NR	0.33	ND	NR
Total Conc	NA	0.0	0.0	0.0	0.0	NR
PESTICIDES BY 8081B (ug/l)						
Dilution Factor		ND	ND	ND	ND	NR
PCBs BY 8082A (ug/l)						
Dilution Factor		ND	ND	ND	ND	NR
METALS BY 6020A (ug/l)						
Aluminum	200	NR	NR	NR	97.9	NR
Antimony	6	NR	NR	NR	1.5 J	NR
Arsenic	3	NR	NR	NR	1.2 J	NR
Barium	6000	NR	NR	NR	124	NR
Cadmium	4	NR	NR	NR	0.90 J	NR
Calcium	NA	NR	NR	NR	75800	NR
Copper	1300	NR	NR	NR	14.3	NR
Iron	300	NR	NR	NR	1900	NR
Lead	5	NR	NR	NR	1.0 J	NR
Magnesium	NA	NR	NR	NR	11200	NR
Manganese	50	NR	NR	NR	68.3	NR
Nickel	100	NR	NR	NR	9.5	NR
Potassium	NA	NR	NR	NR	8380	NR
Sodium	50000	NR	NR	NR	12100	NR
Vanadium	NA	NR	NR	NR	1.2 J	NR
Zinc	2000	NR	NR	NR	203	NR
MERCURY (ug/l)		Method 245.1	Method 245.1		Method 7470A	
Mercury	2	ND	ND	NR	ND	NR
CYANIDE BY 9012B (ug/l)						
Cyanide, Total (ug/l)	NA	NR	NR	NR	2.2 J	NR
AMMONIA BY 350.1 (mg/l)						
Ammonia (mg/l)	3	NR	NR	NR	1.7	NR
TDS BY SM 2540C (mg/l)						
Total Dissolved Solids (mg/l)	500	NR	NR	NR	358	NR
NITRATE (mg/l)		SM4500N03D			Method 300.0	
Nitrate	10	3.67	NR	NR	0.28	NR
WATER BY 537 (MODIFIED) (ng/l)						
Perfluorooctanesulfonic acid (PFOS)	10	NR	NR	NR	NR	231
Perfluorooctanoic acid (PFOA)	10	NR	NR	NR	NR	27.6

Client ID	Class II-A	GWS-20/0-19	GWS-20/46-50	GWS-20/71-75	GWS-20/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 19'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	460-177668-1	460-177668-2	460-177668-3	460-177668-4
Sampling Date	2019	3/20/2019	3/20/2019	3/20/2019	3/20/2019
VO+15 BY 8260C (ug/l)					
1,1-Dichloroethane	50	ND	ND	0.35 J	ND
Acetone	6000	5.2	ND	ND	ND
Carbon disulfide	700	ND	ND	ND	0.25 J
cis-1,2-Dichloroethene	70	ND	ND	0.55 J	8.8
Vinyl chloride	1	ND	ND	ND	3.2
Total Conc	NA	5.2	0.0	0.9	12.25
Total Estimated Conc. (TICs)	NA	0.0	0.0	0.0	0.0
WATER BY 8260C SIM (ug/l)					
1,4-Dioxane	0.4	ND	ND	0.71	0.67
Total Conc	NA	0.0	0.0	0.71	0.67
AMMONIA BY 350.1 (mg/l)					
Ammonia	3	0.42	0.33	NR	NR
NITRATE BY 353.2 (mg/l)					
Nitrate Nitrite as N	10	37.6	19.0	NR	NR
TDS BY SM 2540C (mg/l)					
Total Dissolved Solids	500	1030	363	NR	NR

Client ID	Class II-A	GWS-20/0-19	GWS-20/46-50	GWS-20/71-75	GWS-20/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 19'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	320-48579-1	320-48579-2	--	--
Sampling Date	2019	3/20/2019	3/20/2019	--	--
WATER BY 537 (MODIFIED) (ng/l)					
Perfluorooctanesulfonic acid (PFOS)	10	0.54 J	2.38	NR	NR
Perfluorooctanoic acid (PFOA)	10	8.45	3.24	NR	NR

Client ID	Class II-A	GWS-5/47-50
Screened Interval (BGS.)	Higher of PQLs	47' - 50'
Lab Sample ID	and GWQC	460-165739-2
Sampling Date	2018	9/27/2018
VOC BY 8260C (ug/l)		
Total Conc	NA	0.0
Total Estimated Conc. (TICs)	500	0.0
VO SIM BY 8260C SIM (ug/l)		
Total Conc	NA	0.0
BN BY 8270D (ug/l)		
Total Conc	NA	0.0
Total Estimated Conc. (TICs)	500	0.0
BN SIM BY 8270D SIM (ug/l)		
Total Conc	NA	0.0

Client ID	Class II-A	GW-17/0-19
Screened Interval (BGS.)	Higher of PQLs	0' - 19'
Lab Sample ID	and GWQC	320-48473-3
Sampling Date	2019	3/18/2019
WATER BY 537 (MODIFIED) (ng/l)		
Perfluorooctanesulfonic acid (PFOS)	10	131
Perfluorooctanoic acid (PFOA)	10	130

Client ID	Class II-A	GWS-19/36-40
Screened Interval (BGS.)	Higher of PQLs	47' - 50'
Lab Sample ID	and GWQC	460-177578-3
Sampling Date	2019	3/19/2019
VO+15 BY 8260C (ug/l)		
Total Conc	NA	0.0
Total Estimated Conc. (TICs)	NA	0.0
WATER BY 8260C SIM (ug/l)		
Total Conc	NA	0.0

Client ID	Class II-A	GW 9A	GW 9B	GW 9C
Screened Interval (BGS.)	Higher of PQLs	15' - 18'	25' - 28'	37' - 40'
Lab Sample ID	and GWQC	B0AB1	B0AB2	B0AB3
Sampling Date	2018	10/21/2014	10/21/2014	10/21/2014
VOA (ug/l)				
2-Butanone	300	ND	ND	3.5 J
Acetone	6000	ND	ND	6.5 J
Benzene	1	ND	ND	1.1 J
Chlorobenzene	50	ND	ND	1.6 J
Cyclohexane	NA	ND	ND	0.3 J
MTBE	70	ND	ND	2.0 J
Toluene	600	ND	ND	1.2 J

Client ID	Class II-A	GW 8A	GW 8B	GW 8C	GW 8D
Screened Interval (BGS.)	Higher of PQLs	15' - 18'	25' - 28'	37' - 40'	40' - 43'
Lab Sample ID	and GWQC	B0AA4	B0AA5	B0AA6	B0AA7
Sampling Date	2018	10/20/2014	10/20/2014	10/20/2014	10/20/2014
VOA (ug/l)					
2-Butanone	300	ND	ND	ND	3.7 J
Acetone	6000	ND	ND	3.9 J	5.6 J
Benzene	1	ND	ND	ND	0.94 J
Carbon disulfide	700	0.56 J	ND	ND	ND
Chlorobenzene	50	ND	ND	0.55 J	0.30 J
Cyclohexane	NA	ND	ND	ND	0.42 J
MTBE	70	ND	0.21 J	0.98 J	1.1 J
Toluene	600	ND	0.31 J	0.23 J	0.43 J

Client ID	Class II-A	GWS-23/0-18	GWS-23/46-50	GWS-23/71-75	GWS-23/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 18'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	460-178560-1	460-178560-2	460-178560-3	460-178560-4
Sampling Date	2019	4/1/2019	4/1/2019	4/1/2019	4/1/2019
VO+15 BY 8260C (ug/l)					
1,1-Dichloroethane	50	ND	ND	0.96 J	0.56 J
1,1-Dichloroethene	1	ND	ND	0.51 J	ND
1,4-Dichlorobenzene	75	ND	0.91 J	ND	ND
Acetone	6000	ND	ND	7.3	ND
Benzene	1	ND	1.0	1.7	1.2
Chlorobenzene	50	ND	1.9	1.1	ND
Chloroethane	NA	ND	1.8	ND	ND
cis-1,2-Dichloroethene	70	ND	15	130	51
Methylene Chloride	3	ND	ND	ND	0.54 J
MTBE	70	ND	4.4	36	2.3
Tetrachloroethene	1	ND	ND	0.39 J	ND
trans-1,2-Dichloroethene	100	ND	ND	2.1	0.66 J
trans-1,3-Dichloropropene	NA	ND	ND	ND	ND
Trichloroethene	1	ND	ND	3.1	2.5
Vinyl chloride	1	ND	9.5	150	56
Xylenes, Total	1000	ND	ND	0.52 J	ND
Total Conc	NA	0.0	34.51	333.68	114.76
Total Estimated Conc. (TICs)	NA	0.0	0.0	0.0	0.0
WATER BY 8260C SIM (ug/l)					
1,4-Dioxane	0.4	0.20	1.8	3.0	1.9
Total Conc	NA	0.0	1.8	3.0	1.9
AMMONIA BY 350.1 (mg/l)					
Ammonia	3	0.17 J	8.6	NR	NR
NITRATE BY 353.2 (mg/l)					
Nitrate Nitrite as N	10	17.8	0.55	NR	NR
TDS BY SM 2540C (mg/l)					
Total Dissolved Solids	500	378	764	NR	NR

Client ID	Class II-A	GWS-23/0-18	GWS-23/46-50	GWS-23/71-75	GWS-23/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 18'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	320-48890-1	320-48890-2		
Sampling Date	2019	4/1/2019	4/1/2019		
WATER BY 537 (MODIFIED) (ng/l)					
Perfluorooctanesulfonic acid (PFOS)	10	ND	36.8	NR	NR
Perfluorooctanoic acid (PFOA)	10	4.44	37.4	NR	NR

Client ID	Class II-A	GWS-16/47-50
Screened Interval (BGS.)	Higher of PQLs	47' - 50'
Lab Sample ID	and GWQC	460-177578-2
Sampling Date	2019	3/19/2019
VO+15 BY 8260C (ug/l)		
Benzene	1	0.59 J
Chlorobenzene	50	1.5
cis-1,2-Dichloroethene	70	2.8
Trichloroethene	1	2.6
Total Conc	NA	7.49
Total Estimated Conc. (TICs)	NA	0.0
WATER BY 8260C SIM (ug/l)		
Total Conc	NA	0.0
AMMONIA BY 350.1 (mg/l)		
Ammonia	3	5.5
NITRATE BY 353.2 (mg/l)		
Nitrate Nitrite as N	10	1.1 F1
TDS BY SM 2540C (mg/l)		
Total Dissolved Solids	500	310

Client ID	Class II-A	GWS-16/47-50
Screened Interval (BGS.)	Higher of PQLs	47' - 50'
Lab Sample ID	and GWQC	320-48513-2
Sampling Date	2019	3/19/2019
WATER BY 537 (MODIFIED) (ng/l)		
Perfluorooctanesulfonic acid (PFOS)	10	14.6
Perfluorooctanoic acid (PFOA)	10	25.4

Client ID	Class II-A	GW 10A	GW 10B	GW 10C
Screened Interval (BGS.)	Higher of PQLs	14' - 16'	26' - 29'	33' - 36'
Lab Sample ID	and GWQC	B0AA8	B0AA9	B0AB0
Sampling Date	2018	10/20/2014	10/20/2014	10/20/2014
VOA (ug/l)				
1,1,1-Trichloroethane	30	ND	0.35 J	ND
1,1-Dichloroethane	50	ND	0.42 J	0.43 J
Acetone	6000	ND	ND	4.4 J
Benzene	1	ND	0.91 J	0.98 J
Chlorobenzene	50	ND	0.77 J	0.72 J
cis-1,2-Dichloroethene	70	65	140	130
Cyclohexane	NA	ND	ND	0.38 J
MTBE	70	ND	0.73 J	0.57 J
Toluene	600	ND	ND	0.51 J
trans-1,2-Dichloroethene	100	034 J	0.99 J	0.82 J
Trichloroethene	1	33	50	47
Vinyl chloride	1	ND	21	9.8
Xylenes, Total	1000	ND	ND	0.23 J

Client ID	Class II-A	GWS-24/0-15	GWS-24/46-50	GWS-24/71-75	GWS-24/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	460-178647-1	460-178647-2	460-178647-3	460-178793-1
Sampling Date	2019	4/2/2019	4/2/2019	4/2/2019	4/2/2019
VO+15 BY 8260C (ug/l)					
1,1-Dichloroethane	50	ND	ND	ND	0.67 J
1,1-Dichloroethene	1	ND	ND	ND	0.64 J
Benzene	1	ND	ND	1.5	1.7
Carbon disulfide	700	ND	ND	ND	0.57 J
cis-1,2-Dichloroethene	70	ND	43	30	350
trans-1,2-Dichloroethene	100	ND	ND	0.97 J	2.4
Trichloroethene	1	ND	22	9.1	4.0
Vinyl chloride	1	ND	0.48 J	1.9	7.6
Total Conc	NA	0.0	65.48	43.47	367.58
Total Estimated Conc. (TICs)	NA	0.0	0.0	0.0	7.6
WATER BY 8260C SIM (ug/l)					
1,4-Dioxane	0.4	ND	ND	1.4	2.0
Total Conc	NA	0.0	0.0	1.4	2.0
AMMONIA BY 350.1 (mg/l)					
Ammonia	3	0.15 J	0.23	NR	NR
NITRATE BY 353.2 (mg/l)					
Nitrate Nitrite as N	10	4.3	54.5	NR	NR
TDS BY SM 2540C (mg/l)					
Total Dissolved Solids	500	98.0	868	NR	NR

Client ID	Class II-A	GWS-24 / 0-15	GWS-24 / 46-50	GWS-24/71-75	GWS-24/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	320-48949-1	320-48949-2	--	--
Sampling Date	2019	4/2/2019	4/2/2019	--	--
WATER BY 537 (MODIFIED) (ng/l)					
Perfluorooctanesulfonic acid (PFOS)	10	1.06 J	18.7	NR	NR
Perfluorooctanoic acid (PFOA)	10	4.26	39.6	NR	NR

Client ID	Class II-A	GW 7A	GW 7B	GW 7C	GW 7D
Screened Interval (BGS.)	Higher of PQLs	13' - 15'	25' - 28'	37' - 40'	49' - 52'
Lab Sample ID	and GWQC	B0AA0	B0AA1	B0AA2	B0AA3
Sampling Date	2018	10/20/2014	10/20/2014	10/20/2014	10/20/2014
VOA (ug/l)					
2-Butanone	300	ND	ND	ND	4.5 J
Acetone	6000	ND	4.2 J	ND	8.1 J
Benzene	1	ND	ND	1.7 J	1.8 J
Carbon disulfide	700	064 J	ND	ND	0.52 J
Chlorobenzene	50	ND	ND	1.8 J	1.4 J
cis-1,2-Dichloroethene	70	1.8 J	ND	ND	0.29 J
Cyclohexane	NA	ND	ND	ND	0.59 J
Toluene	600	ND	0.59 J	ND	0.59 J
Trichloroethene	1	1.7 J	ND	ND	0.24 J
Xylenes, Total	1000	ND	ND	ND	0.24 J

Client ID	Class II-A	GWS-25/0-15	GWS-25/46-50	GWS-25/71-75	GWS-25/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	460-178876-1	460-178876-2	460-178876-3	460-178876-4
Sampling Date	2019	4/4/2019	4/4/2019	4/4/2019	4/4/2019
VO+15 BY 8260C (ug/l)					
1,1-Dichloroethane	50	ND	ND	0.47 J	ND
1,2-Dichlorobenzene	600	ND	ND	ND	0.62 J
1,2-Dichloropropane	1	ND	ND	4.2	ND
Benzene	1	ND	ND	ND	1.0
Carbon disulfide	700	ND	ND	0.63 J	0.28 J
Chlorobenzene	50	ND	ND	ND	0.56 J
cis-1,2-Dichloroethene	70	ND	100	180	2.5
Methylene Chloride	3	ND	ND	ND	0.69 J
trans-1,2-Dichloroethene	100	ND	1.4	1.3	ND
Trichloroethene	1	ND	9.8	0.53 J	1.2
Vinyl chloride	1	ND	ND	ND	1.1
Total Conc	NA	0.0	111.2	187.13	7.95
Total Estimated Conc. (TICs)	NA	0.0	0.0	13.0	16.0
WATER BY 8260C SIM (ug/l)					
1,4-Dioxane	0.4	ND	ND	0.51	0.87
Total Conc	NA	0.0	0.0	0.51	0.87
AMMONIA BY 350.1 (mg/l)					
Ammonia	3	0.24	0.24	NR	NR
NITRATE BY 353.2 (mg/l)					
Nitrate Nitrite as N	10	110	46.6	NR	NR
TDS BY SM 2540C (mg/l)					
Total Dissolved Solids	500	1590	582	NR	NR

Client ID	Class II-A	GWS-25 / 0-15	GWS-25 / 46-50	GWS-25/71-75	GWS-25/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	320-49016-1	320-49016-2	--	--
Sampling Date	2019	4/4/2019	4/4/2019	--	--
WATER BY 537 (MODIFIED) (ng/l)					
Perfluorooctanesulfonic acid (PFOS)	10	0.62 J	2.81	NR	NR
Perfluorooctanoic acid (PFOA)	10	15.7	14.4	NR	NR

Client ID	Class II-A	GWS-22/0-15	GWS-22/26-30	GWS-22/46-50	GWS-22/71-75	GWS-22/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	26' - 30'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	460-178096-2	460-178096-3	460-178096-4	460-178223-1	460-178223-2
Sampling Date	2019	3/26/2019	3/26/2019	3/26/2019	3/27/2019	3/27/2019
VO+15 BY 8260C (ug/l)						
1,2-Dichloroethane	2	ND	ND	0.47 J	ND	ND
Chloroform	70	ND	0.44 J	0.43 J	0.65 J	0.38 J
MTBE	70	ND	5.6	11	2.9	0.79 J
Total Conc	NA	0.0	6.04	11.9	3.55	1.17
Total Estimated Conc. (TICs)	NA	0.0	0.0	0.0	0.0	0.0
WATER BY 8260C SIM (ug/l)						
1,2,3-Trichloropropane	0.03	ND	0.0079 J	0.021 J	ND	ND
1,2-Dibromo-3-Chloropropane	0.02	ND	ND	ND	ND	ND
1,4-Dioxane	0.4	ND	ND	ND	ND	ND
Ethylene Dibromide	0.03	ND	0.023	0.076	0.0081 J	0.0047 J
Total Conc	NA	0.0	0.0309	0.097	0.0081	0.0047
AMMONIA BY 350.1 (mg/l)						
Ammonia	3	0.32	NR	0.28	NR	NR
NITRATE BY 353.2 (mg/l)						
Nitrate Nitrite as N	10	56.5	NR	16.1	NR	NR
TDS BY SM 2540C (mg/l)						
Total Dissolved Solids	500	1680	NR	417	NR	NR

Client ID	Class II-A	GWS-22/0-15	GWS-22/26-30	GWS-22/46-50	GWS-22/71-75	GWS-22/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	26' - 30'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	320-48744-1	--	320-48744-2	--	--
Sampling Date	2019	3/26/2019	--	3/26/2019	--	--
WATER BY 537 (MODIFIED) (ng/l)						
Perfluorooctanesulfonic acid (PFOS)	10	0.81 J	NR	2.22	NR	NR
Perfluorooctanoic acid (PFOA)	10	24.7	NR	12.6	NR	NR

Client ID	Class II-A	LOT 29.02-IRRIGATION
Screened Interval (BGS.)	Higher of PQLs	
Lab Sample ID	and GWQC	460-178220-1
Sampling Date	2019	3/27/2019
VO+15 BY 8260C (ug/l)		
Total Conc	NA	0.0
Total Estimated Conc. (TICs)	NA	0.0
WATER BY 8260C SIM (ug/l)		
Ethylene Dibromide	0.03	0.0032 J
Total Conc	NA	0.0032

Client ID	Class II-A	GWS-21/0-15	GWS-21/36-40	GWS-21/46-50	GWS-21/71-75	GWS-21/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	36' - 40'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	460-177984-1	460-177984-2	460-177984-3	460-177984-4	460-178096-1
Sampling Date	2019	3/25/2019	3/25/2019	3/25/2019	3/25/2019	3/26/2019
VO+15 BY 8260C (ug/l)						
Chloroform	70	ND	1.0	2.5	ND	ND
MTBE	70	ND	33	1.5	ND	ND
Total Conc	NA	0.0	34.0	4.0	0.0	0.0
Total Estimated Conc. (TICs)	NA	0.0	0.0	0.0	0.0	0.0
WATER BY 8260C SIM (ug/l)						
1,2,3-Trichloropropane	0.03	ND	0.017 J	ND	ND	ND
1,4-Dioxane	0.4	ND	ND	0.40	ND	ND
Ethylene Dibromide	0.03	ND	0.052	0.0065 J	ND	ND
Total Conc	NA	0.0	0.069	0.4065	0.0	0.0
AMMONIA BY 350.1 (mg/l)						
Ammonia	3	0.18	NR	ND	NR	NR
NITRATE BY 353.2 (mg/l)						
Nitrate Nitrite as N	10	29.2	NR	1.8	NR	NR
TDS BY SM 2540C (mg/l)						
Total Dissolved Solids	500	1320	NR	162	NR	NR

Client ID	Class II-A	GWS-21/0-15	GWS-21/36-40	GWS-21/46-50	GWS-21/71-75	GWS-21/96-100
Screened Interval (BGS.)	Higher of PQLs	0' - 15'	36' - 40'	46' - 50'	71' - 75'	96' - 100'
Lab Sample ID	and GWQC	320-48686-1	--	320-48686-2	--	--
Sampling Date	2019	3/25/2019	--	3/25/2019	--	--
WATER BY 537 (MODIFIED) (ng/l)						
Perfluorooctanesulfonic acid (PFOS)	10	ND	NR	0.98 J	NR	NR
Perfluorooctanoic acid (PFOA)	10	42.6	NR	3.29	NR	NR

Client ID	Class II-A	MW-3 (MW-A)	MW-3 (MW-A)	MW-3 (MW-A)	MW-3	MW-3
Screened Interval (BGS.)	Higher of PQLs	20' - 40'	20' - 40'	20' - 40'	20' - 40'	20' - 40'
Lab Sample ID	and GWQC	M44244	M47349	L1630694-01	460-155405-3	320-48473-6
Sampling Date	2019	4/4/2014	10/23/2014	9/27/2016	5/3/2018	3/18/2019
VOC (ug/l)		Method 524.2	Method 524.2	Method 8260C	Method 8260C	
1,2-Dibromoethane	0.03	0.93	ND	NR	NR	NR
1,1-Dichloroethane	50	0.75	ND	ND	0.48 J	NR
1,2-Dichlorobenzene	600	0.96	ND	ND	ND	NR
1,3-Dichlorobenzene	600	2.24	2.34	ND	ND	NR
1,4-Dichlorobenzene	75	2.06	2.13	0.59 J	2.5	NR
1,2,4-Trichlorobenzene	9	0.98	ND	ND	ND	NR
1,1,2,2-Tetrachloroethane	1	1.21	ND	ND	ND	NR
1,2,3-Trichlorobenzene	NA	1.51	ND	ND	ND	NR
1,1,2-Trichloroethane	3	0.91	ND	ND	ND	NR
Acetone	6000	ND	NR	2.5 J	7.3	NR
Benzene	1	1.18	3.36	0.32 J	1.4	NR
Bromobenzene	NA	0.57	ND	NR	ND	NR
Bromochloromethane	NA	0.67	ND	ND	ND	NR
Bromodichloromethane	1	0.52	ND	ND	ND	NR
Bromoform	4	1.04	ND	NR	ND	NR
Chlorobenzene	50	30.2	3.91	1.0	2.4	NR
Chloroethane	NA	1.57	1.49	0.22 J	3.0	NR
cis-1,2-Dichloroethene	70	ND	ND	ND	1.5	NR
Dibromoethane	NA	0.85	ND	ND	ND	NR
Dibromochloromethane	1	0.77	ND	ND	ND	NR
Hexachlorobutadiene	0.02	0.74	ND	ND	NR	NR
MTBE	70	2.22	3.95	2.8	3.1	NR
Naphthalene	300	0.74	ND	NR	ND	NR
TBA	100	NR	NR	NR	2.7 J	NR
1,2,3-Trichloropropane	0.03	1.11	ND	ND	ND	NR
trans-1,2-Dichloroethene	100	ND	ND	ND	0.20 J	NR
trans-1,3-Dichloropropene	NA	0.5	ND	ND	ND	NR
Vinyl chloride	1	5.08	0.79	0.19 J	15	NR
Total Conc	NA	NR	NR	NR	39.58	NR
Total Estimated Conc. (TICs)	500	NR	NR	NR	5.9	NR
VO SIM BY 8260C SIM (ug/l)						
Total Conc	NA	0.0	0.0	0.0	0.0	NR
BN BY 8270D (ug/l)						
Total Conc	NA	0.0	0.0	0.0	0.0	NR
Total Estimated Conc. (TICs)	500	11.0	11.0	11.0	11.0	NR
BN SIM BY 8270D SIM (ug/l)						
1,4-Dioxane	0.4	NR	NR	3.9	1.5	NR
Total Conc	NA	NR	NR	NR	1.5	NR
PESTICIDES BY 8081B (ug/l)						
Dilution Factor		ND	ND	ND	ND	NR
PCBs BY 8082A (ug/l)						
Dilution Factor		ND	ND	ND	ND	NR
METALS BY 6020A (ug/l)						
Antimony	6	NR	NR	NR	0.93 J	NR
Arsenic	3	NR	NR	NR	10.7	NR
Barium	6000	NR	NR	NR	606	NR
Calcium	NA	NR	NR	NR	102000	NR
Iron	300	NR	NR	NR	42900	NR
Lead	5	NR	NR	NR	2.6	NR
Magnesium	NA	NR	NR	NR	23300	NR
Manganese	50	NR	NR	NR	222	NR
Nickel	100	NR	NR	NR	1.7 J	NR
Potassium	NA	NR	NR	NR	35600	NR
Sodium	50000	NR	NR	NR	526000	NR
Vanadium	NA	NR	NR	NR	3.5 J	NR
MERCURY (ug/l)		Method 245.1	Method 245.1		Method 7470A	
Mercury	2	ND	ND	NR	ND	NR
CYANIDE BY 9012B (ug/l)						
Cyanide, Total (ug/l)	NA	NR	NR	NR	ND	NR
AMMONIA BY 350.1 (mg/l)						
Ammonia (mg/l)	3	NR	NR	NR	28.9	NR
TDS BY SM 2540C (mg/l)						
Total Dissolved Solids (mg/l)	500	NR	NR	NR	1890	NR
NITRATE (mg/l)		SM4500N03D			Method 300.0	
Nitrate as N	10	4.42	NR	NR	0.20	NR
WATER BY 537 (MODIFIED) (ng/l)						
Perfluorooctanesulfonic acid (PFOS)	10	NR	NR	NR	NR	21.1
Perfluorooctanoic acid (PFOA)	10	NR	NR	NR	NR	20.7

Client ID	Class II-A	GWS-18/47-50
Screened Interval (BGS.)	Higher of PQLs	47' - 50'
Lab Sample ID	and GWQC	460-177578-1
Sampling Date	2019	3/19/2019
VO+15 BY 8260C (ug/l)		
cis-1,2-Dichloroethene	70	5.6
Vinyl chloride	1	3.8
Total Conc	NA	9.4
Total Estimated Conc. (TICs)	NA	0.0
WATER BY 8260C SIM (ug/l)		
1,4-Dioxane	0.4	0.88
Total Conc	NA	0.88
AMMONIA BY 350.1 (mg/l)		
Ammonia	3	6.8
NITRATE BY 353.2 (mg/l)		
Nitrate Nitrite as N	10	12.2
TDS BY SM 2540C (mg/l)		
Total Dissolved Solids	500	1070

Client ID	Class II-A	GWS-18/47-50
Screened Interval (BGS.)	Higher of PQLs	47' - 50'
Lab Sample ID	and GWQC	320-48513-1
Sampling Date	2019	3/19/2019
WATER BY 537 (MODIFIED) (ng/l)		
Perfluorooctanesulfonic acid (PFOS)	10	16.7
Perfluorooctanoic acid (PFOA)	10	22.4

Client ID	Class II-A	GWS-6/20-30
Screened Interval (BGS.)	Higher of PQLs	20' - 30'
Lab Sample ID	and GWQC	460-165468-3
Sampling Date	2018	9/25/2018
VOC BY 8260C (ug/l)		
1,4-Dichlorobenzene	75	5.0
Acetone	6000	5.5
Benzene	1	3.2
Chlorobenzene	50	7.2
Chloroethane	NA	0.38 J
cis-1,2-Dichloroethene	70	2.1
Isopropylbenzene	700	0.50 J
MTBE	70	2.6
Naphthalene	300	0.67 J
TBA	100	23
Vinyl chloride	1	2.0
Total Conc	NA	52.15
Total Estimated Conc. (TICs)	500	0.0
VO SIM BY 8260C SIM (ug/l)		
Total Conc	NA	0.0
BN BY 8270D (ug/l)		
1,4-Dichlorobenzene	75	2.4 J *
N-Nitrosodiphenylamine	10	1.4 J
Total Conc	NA	3.8
Total Estimated Conc. (TICs)	500	69.6
BN SIM BY 8270D SIM (ug/l)		
1,4-Dioxane	0.4	3.7 *
Benzo[a]anthracene	0.1	0.021 J
Total Conc	NA	3.721
PESTICIDES BY 8081B (ug/l)		
		ND
PCBs BY 8082A (ug/l)		
		ND
METALS BY 6020B (ug/l)		
Aluminum	200	638
Arsenic	3	7.6
Barium	6000	535
Calcium	NA	125000
Iron	300	16800
Magnesium	NA	43700
Manganese	50	184
Potassium	NA	54300
Sodium	50000	60900
Vanadium	NA	5.8
Zinc	2000	11.7 J
MERCURY BY 7470A (ug/l)		
Mercury	2	ND
CYANIDE BY 9012B (ug/l)		
Cyanide, Total	NA	ND
AMMONIA BY 350.1 (mg/l)		
Ammonia	3	45.3
TDS BY SM 2540C (mg/l)		
Total Dissolved Solids	500	1260
NITRATE BY 300.0		
Nitrate as N	10	ND

Client ID	Class II-A	MW-4 (MW-D)	MW-4 (MW-D)	MW-4 (MW-D)	MW-4	MW-4
Screened Interval (BGS.)	Higher of PQLs	19.5' - 39.5'	19.5' - 39.5'	19.5' - 39.5'	19.5' - 39.5'	19.5' - 39.5'
Lab Sample ID	and GWQC	M44247	M47348	L1630694	460-155405-4	320-48473-7
Sampling Date	2019	4/4/2014	10/23/2014	9/27/2016	5/3/2018	3/18/2019
VOC (ug/l)		Method 524.2	Method 524.2	Method 8260C	Method 8260C	
Acetone	6000	NR	NR	NR	3.2 J	NR
Benzene	1	ND	ND	ND	0.16 J	NR
Chlorobenzene	50	ND	ND	0.48 J	0.56 J	NR
Vinyl chloride	1	ND	ND	0.08 J	ND	NR
Total Conc	NA	NR	NR	NR	3.92	NR
Total Estimated Conc. (TICs)	500	NR	NR	NR	0.0	NR
VO SIM BY 8260C SIM (ug/l)						
Total Conc	NA	NR	NR	NR	0.0	NR
BN BY 8270D (ug/l)						
Total Conc	NA	NR	NR	NR	0.0	NR
Total Estimated Conc. (TICs)	500	NR	NR	NR	0.0	NR
BN SIM BY 8270D SIM (ug/l)						
1,4-Dioxane	0.4	NR	NR	ND	ND	NR
Total Conc	NA	NR	NR	NR	0.0	NR
PESTICIDES BY 8081B (ug/l)						
		NR	NR	NR	ND	NR
PCBs BY 8082A (ug/l)						
		NR	NR	NR	ND	NR
METALS BY 6020A (ug/l)						
Aluminum	200	NR	NR	NR	1490	NR
Antimony	6	NR	NR	NR	0.94 J	NR
Arsenic	3	NR	NR	NR	3.3	NR
Barium	6000	NR	NR	NR	117	NR
Beryllium	1	NR	NR	NR	0.26 J	NR
Calcium	NA	NR	NR	NR	79000	NR
Cobalt	100	NR	NR	NR	9.8	NR
Copper	1300	NR	NR	NR	2.0 J	NR
Iron	300	NR	NR	NR	2620	NR
Lead	5	NR	NR	NR	3.5	NR
Magnesium	NA	NR	NR	NR	21300	NR
Manganese	50	NR	NR	NR	426	NR
Nickel	100	NR	NR	NR	3.4 J	NR
Potassium	NA	NR	NR	NR	3350	NR
Sodium	50000	NR	NR	NR	7620	NR
Zinc	2000	NR	NR	NR	7.9 J	NR
MERCURY BY 7470A (ug/l)		Method 245.1	Method 245.1		Method 7470A	
Mercury	2	ND	ND	NR	ND	NR
CYANIDE BY 9012B (ug/l)						
Cyanide, Total (ug/l)	NA	NR	NR	NR	ND	NR
AMMONIA BY 350.1 (mg/l)						
Ammonia (mg/l)	3	NR	NR	NR	0.33	NR
TDS BY SM 2540C (mg/l)						
Total Dissolved Solids (mg/l)	500	NR	NR	NR	594	NR
NITRATE BY 300.0 (mg/l)		SM4500N03D			Method 300.0	
Nitrate	10	56.18	NR	NR	32.6 H D	NR
WATER BY 537 (MODIFIED) (ng/l)						
Perfluorooctanesulfonic acid (PFOS)	10	NR	NR	NR	NR	3.41
Perfluorooctanoic acid (PFOA)	10	NR	NR	NR	NR	11.9

Client ID	Class II-A	GW 2A	GW 2B	GW 2C	GW 2D	GW 2E
Screened Interval (BGS.)	Higher of PQLs	0' - 20'	25' - 28'	33' - 36'	41' - 44'	46' - 49'
Lab Sample ID	and GWQC	1502035-08	1502035-09	1502035-10	1502040-03	1502040-04
Sampling Date	2018	2/23/2015	2/23/2015	2/23/2015	2/24/2015	2/24/2015
VOA (ug/l)						
Acetone	6000	ND	12	11	16	33
MERCURY (ug/l)						
Mercury	2	0.27	ND	ND	ND	ND

Client ID	Class II-A	GW 3A	GW 3B	GW 3C	GW 3D
Screened Interval (BGS.)	Higher of PQLs	22' - 25'	30' - 33'	38' - 41'	46' - 49'
Lab Sample ID	and GWQC	1502035-03	1502035-04	1502035-05	1502035-06
Sampling Date	2018	2/23/2015	2/23/2015	2/23/2015	2/23/2015
VOA (ug/l)					
Acetone	6000	ND	18	15	ND
MERCURY (ug/l)					
Mercury	2	ND	ND	ND	ND

Client ID	Class II-A	GWS-9/15-25
Screened Interval (BGS.)	Higher of PQLs	15' - 25'
Lab Sample ID	and GWQC	460-165591-1
Sampling Date	2018	9/26/2018
VOC BY 8260C (ug/l)		
1,2-Dichlorobenzene	600	0.50 J
1,4-Dichlorobenzene	75	2.0
Carbon disulfide	700	0.2 J
Chlorobenzene	50	6.4
Isopropylbenzene	700	1.3
Methylcyclohexane	NA	0.59 J
Naphthalene	300	1.1
Xylenes, Total	1000	1.2 J
Total Conc	NA	13.29
Total Estimated Conc. (TICs)	500	0.0
VO SIM BY 8260C SIM (ug/l)		
Total Conc	NA	0.0
BN BY 8270D (ug/l)		
Total Conc	NA	0.0
Total Estimated Conc. (TICs)	500	0.0
BN SIM BY 8270D SIM (ug/l)		
Total Conc	NA	0.0
PESTICIDES BY 8081B (ug/l)		
		ND
PCBs BY 8082A (ug/l)		
		ND
METALS BY 6020B (ug/l)		
Aluminum	200	762
Arsenic	3	2.3
Barium	6000	247
Calcium	NA	124000
Chromium	70	4.6
Copper	1300	9.3
Iron	300	50600
Lead	5	25.2
Magnesium	NA	18900
Manganese	50	365
Nickel	100	2.7 J
Potassium	NA	8490
Sodium	50000	29600
Vanadium	NA	4.3
Zinc	2000	19.0
MERCURY BY 7470A (ug/l)		
Mercury	2	ND
CYANIDE BY 9012B (ug/l)		
Cyanide, Total	NA	6.2 J
AMMONIA BY 350.1 (mg/l)		
Ammonia	3	7
TDS BY SM 2540C (mg/l)		
Total Dissolved Solids	500	614
NITRATE BY 300.0		
Nitrate as N	10	ND

Client ID	Class II-A	GWS-10/15-25
Screened Interval (BGS.)	Higher of PQLs	15' - 25'
Lab Sample ID	and GWQC	460-165591-2
Sampling Date	2018	9/26/2018
VOC BY 8260C (ug/l)		
1,4-Dichlorobenzene	75	1.2
Chlorobenzene	50	3.4
Isopropylbenzene	700	0.62 J
Total Conc	NA	5.22
Total Estimated Conc. (TICs)	500	0.0
VO SIM BY 8260C SIM (ug/l)		
Total Conc	NA	0.0
BN BY 8270D (ug/l)		
Total Conc	NA	0.0
Total Estimated Conc. (TICs)	500	0.0
BN SIM BY 8270D SIM (ug/l)		
Total Conc	NA	0.0
PESTICIDES BY 8081B (ug/l)		
		ND
PCBs BY 8082A (ug/l)		
		ND
METALS BY 6020B (ug/l)		
Aluminum	200	54.4
Arsenic	3	9.3
Barium	6000	397
Calcium	NA	113000
Copper	1300	3.7 J
Iron	300	35100
Lead	5	1.6
Magnesium	NA	16300
Manganese	50	209
Potassium	NA	12500
Sodium	50000	11900
Vanadium	NA	1.6 J
MERCURY BY 7470A (ug/l)		
Mercury	2	ND
CYANIDE BY 9012B (ug/l)		
Cyanide, Total	NA	ND
AMMONIA BY 350.1 (mg/l)		
Ammonia	3	9.1
TDS BY SM 2540C (mg/l)		
Total Dissolved Solids	500	512
NITRATE BY 300.0		
Nitrate as N	10	ND

Client ID	Class II-A	MW-1 (MW-C)	MW-1 (MW-C)	MW-1 (MW-C)	MW-1	MW-1
Screened Interval (BGS.)	Higher of PQLs	19' - 39'	19' - 39'	19' - 39'	19' - 39'	19' - 39'
Lab Sample ID	and GWQC	M44246	M47347	L1630694-03	460-155405-1	320-48473-4
Sampling Date	2019	4/4/2014	10/23/2014	9/27/2016	5/3/2018	3/18/2019
VOC (ug/l)		Method 524.2	Method 524.2	Method 8260C	Method 8260C	
Chloroform	70	ND	ND	0.18 J	0.82 J	NR
Total Conc	NA	NR	NR	0.18	0.82	NR
Total Estimated Conc. (TICs)	NA	NR	NR	1.33	0.0	NR
VO SIM BY 8260C SIM (ug/l)						
Total Conc	NA	NR	NR	NR	0.0	NR
BN BY 8270D (ug/l)						
Total Conc	NA	NR	NR	NR	0.0	NR
Total Estimated Conc. (TICs)	NA	NR	NR	NR	0.0	NR
BN SIM BY 8270D SIM (ug/l)						
1,4-Dioxane	0.4	NR	NR	ND	ND	NR
Total Conc	NA	NR	NR	NR	0.0	NR
PESTICIDES BY 8081B (ug/l)						
		NR	NR	NR	ND	NR
PCBs BY 8082A (ug/l)						
		NR	NR	NR	ND	NR
METALS BY 6020A (ug/l)						
Aluminum	200	NR	NR	NR	1320	NR
Antimony	6	NR	NR	NR	1.1 J	NR
Arsenic	3	NR	NR	NR	9.8	NR
Barium	6000	NR	NR	NR	61.5	NR
Beryllium	1	NR	NR	NR	0.79 J	NR
Calcium	NA	NR	NR	NR	115000	NR
Cobalt	100	NR	NR	NR	9.6	NR
Copper	1300	NR	NR	NR	4.5	NR
Iron	300	NR	NR	NR	138	NR
Lead	5	NR	NR	NR	0.79 J	NR
Magnesium	NA	NR	NR	NR	34500	NR
Manganese	50	NR	NR	NR	193	NR
Nickel	100	NR	NR	NR	6.5	NR
Potassium	NA	NR	NR	NR	33100	NR
Selenium	40	NR	NR	NR	1.2 J	NR
Sodium	50000	NR	NR	NR	21500	NR
Zinc	2000	NR	NR	NR	40.1	NR
MERCURY (ug/l)		Method 245.1	Method 245.1		Method 7470A	
Mercury	2	ND	ND	NR	ND	NR
CYANIDE BY 9012B (ug/l)						
Cyanide, Total (ug/l)	NA	NR	NR	NR	ND	NR
AMMONIA BY 350.1 (mg/l)						
Ammonia (mg/l)	3	NR	NR	NR	0.075 J	NR
TDS BY SM 2540C (mg/l)						
Total Dissolved Solids (mg/l)	500	NR	NR	NR	910	NR
NITRATE (mg/l)		SM4500N03D			Method 300.0	
Nitrate as N	10	43.2	NR	NR	47.0 H D	NR
WATER BY 537 (MODIFIED) (ng/l)						
Perfluorooctanesulfonic acid (PFOS)	10	NR	NR	NR	NR	7.15
Perfluorooctanoic acid (PFOA)	10	NR	NR	NR	NR	14.0

Client ID	Class II-A	GW 4A	GW 4B	GW 4C	GW 4D	GW 4E
Screened Interval (BGS.)	Higher of PQLs	16' - 19'	25' - 28'	33' - 36'	41' - 44'	46' - 49'
Lab Sample ID	and GWQC	1502028-02	1502028-03	1502028-04	1502028-05	1502028-06
Sampling Date	2018	2/19/2015	2/19/2015	2/19/2015	2/19/2015	2/19/2015
VOA (ug/l)						
Acetone	6000	ND	ND	11	19	23
Bromomethane	10	ND	ND	ND	ND	5.3
MERCURY (ug/l)						
Mercury	2	ND	ND	ND	ND	ND

Client ID	Class II-A	GWS-2/15-25
Screened Interval (BGS.)	Higher of PQLs	15' - 25'
Lab Sample ID	and GWQC	460-165468-1
Sampling Date	2018	9/25/2018
VOC BY 8260C (ug/l)		
1,2,4-Trimethylbenzene	NA	0.60 J
Chlorobenzene	50	1.0
Ethylbenzene	700	0.46 J
Naphthalene	300	7.4
Toluene	600	0.66 J
Xylenes, Total	1000	1.6 J
Total Conc	NA	11.72
Total Estimated Conc. (TICs)	500	0.0
VO SIM BY 8260C SIM (ug/l)		
Total Conc	NA	0.0
BN BY 8270D (ug/l)		
1-Methylnaphthalene	NA	1.2 J
2-Methylnaphthalene	30	1.2 J
Dibenzofuran	NA	1.4 J
Fluorene	300	2.6 J
Naphthalene	300	2.6 J
Phenanthrene	NA	2.5 J
Total Conc	NA	11.5
Total Estimated Conc. (TICs)	500	7.6
BN SIM BY 8270D SIM (ug/l)		
1,4-Dioxane	0.4	1.5 *
Total Conc	NA	1.5
PESTICIDES BY 8081B (ug/l)		
		ND
PCBs BY 8082A (ug/l)		
		ND
METALS BY 6020B (ug/l)		
Aluminum	200	35.7 J
Arsenic	3	4.0
Barium	6000	442
Calcium	NA	54000
Iron	300	18600
Magnesium	NA	6600
Manganese	50	147
Potassium	NA	3350
Sodium	50000	6870
MERCURY BY 7470A (ug/l)		
Mercury	2	ND
CYANIDE BY 9012B (ug/l)		
Cyanide, Total	NA	ND
AMMONIA BY 350.1 (mg/kg)		
Ammonia	3	1.8
TDS BY SM (mg/kg)		
Total Dissolved Solids (mg/l)	500	331
NITRATE BY 300.0 (mg/kg)		
Nitrate as N	10	0.11

Client ID	Class II-A	GW 5A	GW 5B	GW 5C	GW 5D	GW 5E
Screened Interval (BGS.)	Higher of PQLs	16' - 19'	24' - 27'	31' - 35'	42' - 44'	46' - 49'
Lab Sample ID	and GWQC	1502026-01	1502026-02	1502026-03	1502026-04	1502028-01
Sampling Date	2018	2/18/2015	2/18/2015	2/18/2015	2/18/2015	2/19/2015
VOA (ug/l)						
Acetone	6000	ND	13	12	13	23
cis-1,2-Dichloroethene	70	ND	24	ND	ND	ND
Vinyl chloride	1	ND	33	ND	ND	ND

Client ID	Class II-A	GWS-14/0-19
Screened Interval (BGS.)	Higher of PQLs	0' - 19'
Lab Sample ID	and GWQC	320-48473-8
Sampling Date	2019	3/18/2019
WATER BY 537 (MODIFIED) (ng/l)		
Perfluorooctanesulfonic acid (PFOS)	10	2.22
Perfluorooctanoic acid (PFOA)	10	55.7

Client ID	Class II-A	GWS-3/14-24	GWS-3/47-50
Screened Interval (BGS.)	Higher of PQLs	14' - 24'	47' - 50'
Lab Sample ID	and GWQC	460-165468-2	460-165739-1
Sampling Date	2018	9/25/2018	9/27/2018
VOC BY 8260C (ug/l)			
Benzene	1	ND	0.67 J
Chlorobenzene	50	1.8	0.94 J
Isopropylbenzene	700	0.43 J	ND
Total Conc	NA	2.23	1.61
Total Estimated Conc. (TICs)	500	0.0	0.0
VO SIM BY 8260C SIM (ug/l)			
Total Conc	NA	0.0	0.0
BN BY 8270D (ug/l)			
Total Conc	NA	0.0	0.0
Total Estimated Conc. (TICs)	500	0.0	8.4
BN SIM BY 8270D SIM (ug/l)			
Total Conc	NA	0.025	0.0
PESTICIDES BY 8081B (ug/l)			
		ND	NR
PCBs BY 8082A (ug/l)			
		ND	NR
METALS BY 6020B (ug/l)			
Aluminum	200	1120	NR
Arsenic	3	32.1	NR
Barium	6000	357	NR
Calcium	NA	100000	NR
Chromium	70	5.1	NR
Copper	1300	5.8	NR
Iron	300	44000	NR
Lead	5	4.5	NR
Magnesium	NA	10900	NR
Manganese	50	212	NR
Potassium	NA	7480	NR
Sodium	50000	6360	NR
Vanadium	NA	4.7	NR
Zinc	2000	17.4	NR
MERCURY BY 7470A (ug/l)			
Mercury	2	ND	NR
CYANIDE BY 9012B (ug/l)			
Cyanide, Total	NA	4.0 J	NR
AMMONIA BY 350.1 (mg/l)			
Ammonia	3	12.1	NR
TDS BY SM 2540C (mg/l)			
Total Dissolved Solids	500	492	NR
NITRATE BY 300.0			
Nitrate as N	10	ND	NR

Client ID	Class II-A	GW 11A	GW 11B	GW 11C
Screened Interval (BGS.)	Higher of PQLs	16' - 19'	24' - 27'	32' - 35'
Lab Sample ID	and GWQC	1502040-05	1502040-07	1502040-10
Sampling Date	2018	2/24/2015	2/24/2015	2/24/2015
VOA (ug/l)				
cis-1,2-Dichloroethene	70	1,100	11	ND
trans-1,2-Dichloroethene	100	11	ND	ND
Vinyl chloride	1	290	ND	ND
Total Estimated Conc. (TICs)	500	NR	NR	NR
MERCURY (ug/l)				
Mercury	2	ND	ND	ND

Client ID	Class II-A	GW 6A	GW 6B	GW 6C
Screened Interval (BGS.)	Higher of PQLs	15' - 18'	25' - 28'	37' - 40'
Lab Sample ID	and GWQC	B0AB4	B0AB5	B0AB6
Sampling Date	2018	10/21/2014	10/21/2018	10/21/2018
VOA (ug/l)				
1,1,1-Trichloroethane	30	14	ND	ND
1,1-Dichloroethane	50	3.3 J	1.4 J	ND
1,1-Dichloroethene	1	2.9 J	ND	ND
Acetone	6000	ND	ND	3.2 J
Benzene	1	ND	0.88 J	ND
Chlorobenzene	50	ND	1.1 J	0.68 J
cis-1,2-Dichloroethene	70	440	87	30
Tetrachloroethene	1	2.8 J	ND	ND
Toluene	600	ND	ND	0.24 J
trans-1,2-Dichloroethene	100	1.6 J	1.5 J	ND
Trichloroethene	1	970	1.4 J	13
Vinyl chloride	1	6.0 J	120	2.1 J

LEGEND:

- TAX BOUNDARY
- CMA GROUNDWATER SCREENING LOCATION
- CMA MONITORING WELL LOCATION
- NJDEP GROUNDWATER SCREENING LOCATION
- VOC'S NOT DETECTED IN POTABLE WELL
- VOC'S DETECTED AT OR BELOW GWQC IN POTABLE WELL
- VOC'S DETECTED ABOVE GWQC IN POTABLE WELL
- EXCEEDS NJDEP GROUNDWATER CLEANUP QUALITY CRITERIA (GWQC)
- J RESULT IS LESS THAN THE RL BUT GREATER THAN OR EQUAL TO THE MDL AND THE CONCENTRATION IS AN APPROXIMATE VALUE
- NS POTABLE WELL NOT SAMPLED FOR CONTAMINATES OF CONCERN
- U INDICATES THE ANALYTE WAS ANALYZED FOR BUT NOT DETECTED
- *T THERE ARE NO TICS REPORTED FOR THE SAMPLE
- D SAMPLE RESULTS ARE OBTAINED FROM A DILUTION; THE SURROGATE OR MATRIX SPIKE RECOVERIES REPORTED ARE CALCULATED FROM DILUTED SAMPLES
- H SAMPLE WAS PREPPED OR ANALYZED BEYOND THE SPECIFIED HOLDING TIME
- ND NONE DETECT
- NA NOT ANALYZED
- NR NOT REQUIRED
- ug/l MICROGRAM PER LITER

GROUNDWATER SAMPLING ANALYTICAL RESULTS MAP

BUENA VISTA TOWNSHIP PUBLIC WORKS YARD
430 UNION ROAD
BUENA VISTA TOWNSHIP
ATLANTIC COUNTY, NEW JERSEY

CALMAR Associates LLC.

DATE: SEPTEMBER 2019

SCALE: 1" = 250'

NJDEP SRP PI # 032698
Ryan K. Seibert, LSRP

Figure 3

BUENA_003

4316 Post Road

Sampling Date	GWQS	8/14/2017	8/14/2017	3/6/2019	8/13/2019	8/13/2019
Sample Type		Raw	Treated	Treated	Raw	Treated
Lab Sample ID		P69001	P69000	7081770	70101383	70101384
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**40.1**	ND	ND	**45.5**	ND
cis-1,2-DCE	70	1.5	ND	ND	46.6	ND
trans-1,2-DCE	100	ND	ND	ND	ND	ND
VC	1	0.82	ND	ND	**14.3**	0.52
1,1-DCE	1	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND
MTBE	70	ND	ND	ND	2.2	ND
Dibromochloromethane	1	ND	0.62	ND	ND	ND
Bromoform	4	ND	0.73	ND	ND	ND
Mercury	2	NT	NT	NT	NT	NT
Perchlorate	5	NT	NT	NT	NT	NT

4324 Post Road

Sampling Date	GWQS	1/30/2014	2/11/2014	2/24/2014	7/8/2014	10/9/2014	11/13/2014	11/13/2014	12/16/2014	4/14/2015	7/23/2015	10/21/2015	11/30/2015	11/30/2015	1/13/2016	5/31/2016	11/23/2016	11/23/2016	5/23/2017	11/14/2017	11/14/2017	7/3/2019
Sample Type		Initial	Confirmation	Confirmation	Treated	Initial	Raw	Treated	Confirmation	Confirmation	Treated	Confirmation	Raw	Treated	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Treated
Lab Sample ID					M45769		M47577	M47576			N50860		N52610	N52609	O53118	O55187	O59090	O59089	P65885	P70947	P70946	7096504
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**91**	NT	**88**	ND	NT	ND	ND	NT	NT	ND	NT	**29.47**	ND	ND	ND	**13.03**	ND	ND	**19.8**	ND	ND
cis-1,2-DCE	70	**374**	NT	**365**	ND	NT	**304.34**	ND	NT	NT	ND	NT	**145.18**	ND	ND	ND	52.7	ND	ND	**85.5**	ND	ND
trans-1,2-DCE	100	ND	NT	ND	ND	NT	1.62	ND	NT	NT	ND	NT	0.92	ND	ND	ND	0.56	ND	ND	1.03	ND	ND
VC	1	**7.13**	NT	ND	ND	NT	**10.96**	ND	NT	NT	ND	NT	**3.15**	**1.08**	ND	ND	0.56	ND	ND	**3.03**	ND	ND
1,1-DCE	1	ND	NT	ND	ND	NT	**1.27**	ND	NT	NT	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	NT	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	**3.76**	NT	ND	ND	NT	**2.73**	ND	NT	NT	ND	NT	**1.49**	ND	ND	ND	0.88	ND	ND	**1.41**	ND	ND
1,2,3-TCP	0.03	ND	NT	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride		ND	NT	ND	ND	NT	ND	ND	NT	NT	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72
Mercury	2	**2.02**	**2.47**	NT	ND	NT	0.95	ND	NT	NT	ND	NT	**5.77**	ND	NT	ND	**5.32**	ND	ND	**7.14**	ND	ND
Perchlorate	5	NT	NT	NT	NT	**8.50**	NT	NT	4.5	3.42	NT	3.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

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Sampling Date	GWQS	3/5/2014	3/18/2014	5/14/2014	10/1/2014	10/1/2014	10/9/2014	12/16/2014	4/14/2015	4/9/2015	11/2/2015	11/2/2015	4/15/2016	10/20/2016	10/20/2016	4/6/2017	10/9/2017	10/9/2017	3/21/2019
Sample Type		Initial	Confirmation	Treated	Raw	Treated	Initial	Confirmation	Confirmation	Treated	Raw	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Treated
Lab Sample ID				M44747	M47049	M74048				N49087	N52322	N52321	O54365	O58375	O58374	P63207	P70184	P70183	7083168
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**2.96**	**2.85**	ND	**3.69**	ND	NT	NT	NT	ND	**12.08**	ND	ND	**1.1**	ND	ND	**47.9**	ND	ND
cis-1,2-DCE	70	19.6	18.6	ND	24.34	ND	NT	NT	NT	ND	52.2	ND	ND	**91.5**	0.56	ND	**141.4**	ND	ND
VC	1	0.73	0.79	ND	**2.45**	ND	NT	NT	NT	ND	**1.17**	ND	0.95	**1.1**	ND	ND	ND	ND	ND
1,1-DCE	1	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	NT	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	0.246	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	NT	NT	NT	NT	NT	**31.6**	3.21	3.06	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

4320 Post Road

Sampling Date	GWQS	2/11/2014	2/24/2014	3/6/2014	3/25/2014	10/1/2014	10/1/2014	10/9/2014	10/27/2014	4/9/2015	10/29/2015	10/29/2015	3/6/2019
Sample Type		Initial	Confirmation	Confirmation	Treated	Raw	Treated	Initial	Treated	Treated	Raw	Treated	Treated
Lab Sample ID					M44137	M47047	M47046		M47378				7081769
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**104**	NR	**120**	ND	**165.73**	ND	NT	ND	ND	**139**	ND	ND
cis-1,2-DCE	70	**340**	NR	**362**	ND	**500.28**	ND	NT	ND	ND	**544**	ND	ND
trans-1,2-DCE	100	ND	NR	ND	ND	2.43	ND	NT	ND	ND	ND	ND	ND
VC	1	**26.8**	NR	0.19	ND	**70.39**	**30.73**	NT	ND	ND	**80**	**25.37**	ND
1,1-DCE	1	**1.04**	NR	ND	ND	**2.15**	ND	NT	ND	ND	**2.11**	ND	ND
1,2-DCA	2	ND	NR	ND	ND	0.53	ND	NT	ND	ND	ND	ND	ND
1,2-DCP	1	0.91	NR	ND	ND	0.92	ND	NT	ND	ND	**1.36**	ND	ND
1,2,3-TCP	0.03	ND	NR	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Methylene Chloride	3	ND	NR	ND	ND	ND	0.51	NT	ND	ND	ND	ND	ND
MTBE	70	ND	NR	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND
Mercury	2	**2.7**	**3.36**	NT	ND	**2.08**	ND	NT	NT	NT	1.55	NT	NT
Perchlorate	5	NT	NR	NT	NT	NT	NT	2.27	NT	NT	NT	NT	NT

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Sampling Date	GWQS	2/11/2014	4/8/2014	10/9/2014	1/30/2019	4/11/2019
Sample Type		Initial	Confirmation	Initial	Raw	Treated
Lab Sample ID					7078150	7085630
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	0.89	0.9	NT	ND	ND
cis-1,2-DCE	70	ND	ND	NT	12.6	ND
VC	1	**1.57**	**1.74**	NT	**4.2**	ND
1,1-DCE	1	ND	ND	NT	ND	ND
1,2-DCA	2	ND	ND	NT	ND	ND
1,2-DCP	1	ND	ND	NT	ND	ND
1,2,3-TCP	0.03	ND	ND	NT	ND	ND
Mercury	2	NT	NT	NT	NT	NT
Perchlorate	5	NT	NT	0.59	NT	NT

4268 Post Road

Sampling Date	GWQS	8/22/2013	10/10/2013	12/13/2013	6/10/2014	6/10/2014	10/9/2014	12/10/2014	12/16/2014	3/9/2015	8/6/2015	8/6/2015	9/30/2015	9/30/2015	3/31/2016	6/9/2016	10/11/2016	10/11/2016	11/17/2016	3/21/2017	9/20/2017	3/6/2019
Sample Type		Initial	Confimation	Treated	Raw	Treated	Initial	Treated	Confirmation	Treated	Raw	Treated	Raw	Treated	Treated	Treated	Raw	Treated	Treated	Treated	Treated	Treated
Lab Sample ID				43610	44549	44550		45739		46117	47097	47098	47501	47502	46824	49188	50209	50210	50541	51281	52818	7081772
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**1.95**	**1.67**	ND	**1.2**	ND	NT	ND	ND	NT	**1.06**	ND	NT	ND	ND	ND	**1.9**	ND	ND	ND	ND	ND
cis-1,2-DCE	70	29.8	28	ND	20	ND	NT	ND	ND	NT	22.8	ND	NT	ND	ND	ND	28.3	ND	ND	ND	ND	ND
VC	1	**21.7**	**18.7**	ND	**5.2**	ND	NT	ND	ND	NT	**14.9**	**7.7**	NT	ND	**2.0**	ND	**11.9**	**10.1**	0.63	**5.5**	**3.9**	ND
1,1-DCE	1	0.11	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	12.2	12.2	ND	ND	ND	ND
1,4-Dichlorobenzene	75	ND	ND	ND	ND	ND	NT	ND	ND	NT	0.52	ND	NT	ND	ND	ND	13.2	13.2	ND	ND	ND	ND
Benzene	1	**1.01**	0.96	ND	0.85	ND	NT	ND	ND	NT	0.97	ND	NT	ND	ND	ND	0.96	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	0.86	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	3.5	ND	NT	ND	ND	NT	4.3	3.59	NT	ND	2.1	ND	4.5	5.5	ND	ND	3.5	ND
Chlorobenzene	50	ND	ND	ND	ND	ND	NT	ND	ND	NT	0.77	ND	NT	ND	ND	ND	1.6	ND	ND	ND	ND	ND
Chloroform	80	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	2.4	ND	ND
Methylene Chloride	3	ND	ND	ND	ND	ND	NT	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	0.51	ND	ND	ND	ND
MTBE	70	ND	ND	ND	0.76	ND	NT	ND	ND	NT	3.6	ND	NT	ND	ND	ND	6.6	ND	ND	ND	ND	ND
Mercury	2	**8.7**	**6.5**	ND	**4.3**	ND	NT	ND	ND	NT	NT	NT	1.5	ND	ND	NT	**2.4**	0.5	NT	ND	NT	NT
Perchlorate	5	NT	NT	NT	NT	NT	**5.12**	NT	**5.34**	ND	**5.5**	ND	NT	NT	0.29	NT	**5.1**	0.32	NT	0.75	NT	NT

4254 Post Road

Sampling Date	GWQS	10/10/2013	11/8/2013	5/19/2014	10/9/2014	11/24/2014	5/13/2015	5/13/2015	12/9/2015	6/30/2016	6/30/2016	7/15/2016	1/19/2017	7/20/2017	7/20/2017	10/12/2017	7/24/2019	7/24/2019
Sample Type		Initial	Confirmation	Treated	Confirmation	Treated	Raw	Treated	Treated	Raw	Treated	Treated	Treated	Raw	Treated	Treated	Raw	Treated
Lab Sample ID				44406		45671	46508	46509	47943	P3288-1	P3288-2	P3615	50902	52300	52301	53020	S5727-1	S5727-2
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	ND	ND	ND	NT	ND	ND	ND	ND	**2.02**	ND	ND	ND	**4.07**	ND	ND	**2.6**	ND
cis-1,2-DCE	70	4.97	6.16	ND	NT	ND	49.83	ND	ND	39.26	1.51	ND	ND	42.6	ND	ND	32.8	ND
VC	1	**21.4**	**24**	ND	NT	ND	**49**	**1.2**	ND	**35.75**	**3.36**	ND	ND	**28.4**	**1.74**	ND	**14.1**	**2.4**
1,1-DCE	1	ND	ND	ND	NT	ND	0.61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	0.66	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	NT	ND	**1.1**	ND	ND	ND	ND	ND	ND	**1.03**	ND	ND	0.64	ND
Chloroethane	5	ND	ND	ND	NT	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-DCE	100	ND	ND	ND	NT	ND	0.83	ND	ND	ND	ND	ND	ND	0.83	ND	ND	0.73	ND
Methylene Chloride	3	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72	ND
MTBE	70	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND
Mercury	2	0.16	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	NT	NT	NT	0.97	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

4249 Post Road

Sampling Date	GWQS	4/23/2014	6/11/2014	12/15/2014	7/7/2015	1/19/2016	1/19/2016	7/12/2016	7/18/2016	1/19/2017	1/19/2017	2/8/2019	2/8/2017	3/28/2017
Sample Type		Initial	Confirmation	Treated	Treated	Raw	Treated	Treated	Treated	Raw	Treated	Raw	Treated	Treated
Lab Sample ID					46865	48147	48148	49438	49478	50903	50904	7078148	7078139	7078139
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	ND	ND	ND	ND	**1.1**	ND	ND	ND	**1.4**	ND	0.77	ND	ND
cis-1,2-DCE	70	3.2	4.0	ND	ND	13.2	ND	ND	ND	15.4	ND	10.7	ND	ND
VC	1	**2.3**	**2.9**	ND	0.6	**19.1**	ND	**1.9**	ND	**13.1**	**5.9**	**10.3**	**1.2**	ND
1,1-DCE	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	0.51	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

4245 Post Road

Sampling Date	GWQS	4/23/2014	4/23/2014	9/3/2014	9/8/2015	9/8/2015	9/25/2015	11/9/2015	3/30/2016	8/31/2016	8/31/2016	2/10/2017	8/30/2017	8/30/2017	2/28/2019	8/13/2019	2/28/2019
Sample Type		Initial	Confirmation	Treated	Raw	Treated	Treated	Treated	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Raw	Treated
Lab Sample ID				M46444	N51550	N51551	N51845	N52401	O54079	O57568	O57569	P60512	P69354	P69355	7080992	70101386	70101385
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**1.4**	**1.58**	ND	**1.18**	ND	NT	NT	ND	ND	**1.42**	ND	ND	**2.54**	ND	**3.1**	ND
cis-1,2-DCE	70	ND	ND	ND	9.51	ND	NT	NT	ND	ND	9.46	ND	ND	15.38	ND	25.3	ND
VC	1	**3.4**	**3.55**	ND	**1.98**	ND	NT	NT	ND	ND	**2.89**	ND	**2.02**	**8.32**	ND	**15.7**	**4.5**
1,1-DCE	1	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	1.9	**2.06**	ND	**2.74**	**2.73**	**2.02**	ND	ND	ND	**2.40**	ND	ND	1.20	NT	NT	NT
Perchlorate	5	1.11	1.31	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

4273 Post Road

Sampling Date	GWQS	12/18/2013	1/7/2014	5/8/2014	10/9/2014	11/14/2014	12/16/2014	1/29/2015	5/12/2015	6/5/2015	7/2/2015	11/12/2015	11/12/2015	5/10/2016	11/10/2016	11/10/2016	5/12/2017	11/10/2017	11/10/2017	5/14/2019
Sample Type		Initial	Confirmation	Treated	Initial	Treated	Confirmation	Treated	Treated	Treated	Raw	Raw	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Treated
Lab Sample ID				M1880		M5491		N433	N2159		N3132	N5554-1	N5554-2	P2275	P5977-1	P5977-2	Q2704	Q6863	Q6863-2	7089954
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**17.7**	**17.7**	ND	NT	ND	NT	NT	ND	ND	**19.22**	NT	ND	ND	**12.07**	ND	ND	**14.68**	ND	ND
cis-1,2-DCE	70	**91.8**	**95.2**	ND	NT	ND	NT	NT	ND	ND	**149.63**	NT	ND	ND	**107.32**	1.2	8.56	**114.65**	23.73	0.55
VC	1	0.17	0.19	ND	NT	ND	NT	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	1	ND	0.00028	ND	NT	ND	NT	NR	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	NT	ND	NT	NT	**3.24**	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	0.12	ND	NT	ND	NT	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	NT	ND	NT	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	0.13	0.12	ND	NT	ND	NT	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	1.04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	NT	NT	NT	**5.45**	NT	**5.98**	ND	NT	NT	NT	4.5	0.2	ND	**6.1**	ND	ND	**5.6**	0.23	NT

4301 Post Road

Sampling Date	GWQS	4/23/2014	6/11/2014	11/10/2014	11/17/2014	5/12/2015	6/18/2015	11/12/2015	11/12/2015	5/17/2016	11/22/2016	11/22/2016	5/15/2017	11/10/2017	11/10/2017	5/14/2019
Sample Type		Initial	Confirmation	Treated	Treated	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Treated
Lab Sample ID				M5393			N2867	N5553-1	N5553-2	P2401	P6223-1	P6223-2	Q2736	Q6864-2	Q6864-1	7089953
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**3.4**	**3.6**	ND	ND	ND	ND	**3.17**	ND	ND	**3.23**	ND	ND	**3.06**	ND	ND
cis-1,2-DCE	70	13	13	ND	ND	ND	ND	13.74	ND	ND	ND	ND	ND	ND	ND	0.5
VC	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.51	ND	ND	ND	ND	ND
Mercury	2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	**5.94**	**7.26**	ND	ND	ND	0.07	2.2	0.2	ND	**6.6**	0.36	ND	ND	1.1	NT

4305 Post Road

Sampling Date	GWQS	10/1/2014	10/1/2014	4/14/2015	10/21/2015	3/1/2016	8/11/2016	8/22/2016	2/9/2017	8/18/2017	8/18/2017	9/22/2017	2/28/2019	8/13/2019	8/13/2019
Sample Type		Initial	Confirmation	Confirmation	Confirmation	Treated	Treated	Raw	Treated	Raw	Treated	Treated	Treated	Raw	Treated
Lab Sample ID						P933	P4320	P4530	Q766	Q4983-1	Q4983-2	Q5731	7080991	70101389	70101388
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**18.8**	**20**	**15**	NR	ND	ND	**11.54**	ND	**6.48**	ND	NR	ND	**7.4**	ND
cis-1,2-DCE	70	**78.7**	**79**	**73**	NR	ND	ND	37.36	ND	35.57	2.71	NR	ND	31.4	32.4
trans-1,2-DCE		ND	ND	ND	NR	ND	ND	ND	ND	1.33	ND	NR	ND	0.83	ND
VC	1	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND
1,1-DCE	1	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND
1,2-DCA	2	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND
1,2-DCP	1	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND
MTBE	70	ND	ND	0.65	NR	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND
Mercury	2	ND	ND	ND	NR	NR	NR	NR	NR	NR	NR	NR	NT	NT	NT
Perchlorate	5	**10.2**	NR	NR	**10**	ND	ND	**10**	ND	**9.6**	NR	ND	NT	NT	NT

4321 Post Road

Sampling Date	GWQS	4/23/2014	6/11/2014	9/22/2014	3/9/2015	3/9/2015	9/16/2015	11/26/2015	3/14/2016	3/14/2016	9/22/2016	3/15/2017	3/15/2017	9/7/2017	3/6/2019	3/6/2019
Sample Type		Initial	Confirmation	Treated	Raw	Treated	Treated	Treated	Raw	Treated	Treated	Raw	Treated	Treated	Raw	Treated
Lab Sample ID				M46928	N48651	N48650	N51660	N52535	O53828	O53829	O57951	P61906	P61905	P69473	7081767	7081768
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
PCE	1	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	**1.3**	ND
TCE	1	**2.2**	**2.2**	ND	**2.24**	ND	ND	NT	**2.4**	ND	ND	**2.04**	ND	ND	ND	ND
cis-1,2-DCE	70	7.1	7.4	ND	7.53	ND	ND	NT	8.12	ND	ND	6.63	ND	ND	4.7	ND
trans-1,2-DCE	100	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
VC	1	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	1	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	**1.3**	**1.4**	ND	**1.41**	ND	ND	NT	**1.59**	ND	ND	**1.09**	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	0.29	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	**18.9**	**20.9**	ND	4.7	ND	NT	ND	**6.8**	ND	ND	4.4	ND	ND	NT	NT

4313 Post Road

Sampling Date	GWQS	4/23/2014	6/11/2014	10/18/2014	4/14/2015	10/31/2015	10/31/2015	4/7/2016	5/1/2016	11/1/2016	11/1/2016	6/26/2017	7/20/2017	1/30/2019	1/30/2019	7/24/2019
Sample Type		Initial	Confirmation	Treated	Treated	Raw	Treated	Treated	Treated	Raw	Treated	Treated	Treated	Raw	Treated	Treated
Lab Sample ID				45366		47711	47712	48680	48846	50402	50403	52125	52302	7078130	7078131	7099031
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
TCE	1	**2**	**2**	ND	ND	**2.8**	ND	ND	ND	**3.7**	ND	ND	ND	**2.5**	ND	ND
cis-1,2-DCE	70	31	29	ND	ND	34.4	ND	ND	ND	47.5	ND	ND	ND	31.1	ND	ND
trans-1,2-DCE	100	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VC	1	**8.7**	**7.6**	ND	ND	**6.9**	ND	**2.2**	ND	**7.9**	ND	**1.5**	ND	**6.3**	ND	ND
1,1-DCE	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCA	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DCP	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-TCP	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	2	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Perchlorate	5	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

LEGEND:

- TAX BOUNDARY
- CURRENTLY KNOWN EXTENT (CKE)
- CMA GROUNDWATER SCREENING LOCATION
- CMA MONITORING WELL LOCATION
- NJDEP GROUNDWATER SCREENING LOCATION
- VOC'S NOT DETECTED IN POTABLE WELL
- VOC'S DETECTED AT OR BELOW GWQC IN POTABLE WELL
- VOC'S DETECTED ABOVE GWQC IN POTABLE WELL
- EXCEEDS THE NJDEP GROUNDWATER CLEANUP QUALITY CRITERIA

NS POTABLE WELL NOT SAMPLED FOR CONTAMINATES OF CONCERN
ND NONE DETECT
NT NOT TESTED
NR NOT REQUIRED
ug/l MICROGRAM PER LITER

NOTE:
ANALYTICAL DATA PRIOR TO JANUARY 2019 OBTAINED FROM NJDEP.

CURRENTLY KNOWN EXTENT (CKE) MAP POTABLE WELL CONTAMINATION

BUENA VISTA TOWNSHIP PUBLIC WORKS YARD
430 UNION ROAD
BUENA VISTA TOWNSHIP
ATLANTIC COUNTY, NEW JERSEY

CALMAR Associates LLC.

DATE: SEPTEMBER 2019
SCALE: 1" = 250'

NJDEP SRP PI # 032698
Ryan K. Seibert, LSRP

Figure 4

BUENA_003

APPENDIX A

GEOPHYSICAL INVESTIGATION REPORT

PERFORMED AT:

430 Union Road
Buena, NJ 08360

PREPARED FOR:

Ryan Seibert
Calmar Associates
1415 13th Avenue
Dorothy, NJ 08317

PREPARED BY:

Matt McMillen
Senior Geophysicist
Enviroprobe Service, Inc.
81 Marter Avenue
Mount Laurel, NJ 08054
(856) 858-8584
(800) 596-7472

June 25, 2018

1.0 INTRODUCTION

Enviroprobe Service, Inc. (Enviroprobe) is an environmental investigation services firm which provides monitoring well installation (HSA), Geoprobe (DPT) drilling services and Environmental & Engineering Geophysics (EEG) services to the environmental consulting and engineering community.

Enviroprobe conducted a subsurface geophysical investigation at the subject property within client-specified areas of concern. Due to conditions and objectives, the investigation utilized a Geonics EM31-MK2 system with a Differential Global Positioning System (DGPS) and a Geometrics 858 Cesium magnetometer with a Differential Global Positioning System (DGPS).

The Geonics EM31-MK2 maps geological, environmental, geotechnical and other subsurface features associated with changes in ground conductivity. The EM31 contains a transmitter coil that generates an electromagnetic field that induces electrical currents in the subsurface. These eddy currents produce a secondary electromagnetic field that is measured by a receiver coil in the EM31. The EM31 measures apparent conductivity in millisiemens per meter (MS/m) and the in-phase ratio of the secondary to the primary electromagnetic field in parts per thousand (PPT). The strength of the in-phase reading provides information on the likely presence of underground metallic objects while the apparent conductivity is useful in mapping more subtle changes in subsurface conductivity. The depth of exploration can be as deep as approximately 15 - 17 feet; however, the effective detecting range may be much shallower depending on the target sizes and host materials.

A total field magnetometer is a rapid, effective and non-destructive instrument used to locate buried ferrous material (drums, pipes, mineral deposits, archaeological objects, etc.). The instrument is operated and carried by one person and contains a digital memory for data storage.

The Geometric 858 is a self-oscillating split beam Cesium Vapor magnetometer.

Interpretation of magnetometer data includes recognizing and characterizing local changes in the intensity of the earth's magnetic field. Analysis usually involves contouring and profiling the data. The size, shape, and magnitude of an anomaly depends on the mass, orientation and depth of the buried target (drums, mineral deposits, etc.). Modeling of the data can provide a rough estimate of the mass and depth of the target but is usually reserved for large-scale geological surveys.

Several factors can limit the effectiveness of the magnetometry method including the proximity of cultural interferences (such as buildings, fences, and reinforced concrete), and the size, depth and magnetic susceptibility of the target.

2.0 SCOPE OF WORK

On June 18 and 19, 2018, two geophysicists from Enviroprobe Service Inc. were mobilized to the subject property to perform the geophysical investigation. The purpose of this investigation was to delineate the extent of landfill material and any potential buried drums. The survey area consisted mostly of grass, pavement, and gravel for the majority of the property.

3.0 SURVEY RESULTS

The survey was conducted using the Geonics EM31-MK2 along survey lines spaced approximately 10 feet apart in the approximately north south direction. Data was downloaded to a field computer for processing and generation of color contour maps. The Geometrics 858 Cesium magnetometer survey was conducted on survey lines spaced approximately 5 feet apart in the same direction as the EM-31 data.

The EM-31 and MAG were used in a grid pattern over all client specified areas of the site. Based on the results of the two surveys several different types of anomalies were detected. These types of anomalies are possible buried metal, magnetic highs, and magnetic lows. Additionally, the possible edge of fill is shown as well as a possible former building location.

Possible buried metal are areas which may contain ferrous buried metal. Magnetic highs are areas with higher magnetic values and could be ferrous buried metal. Magnetic lows are areas of lower magnetic values and could be buried debris, buried concrete, or a bad data point.

An area of high conductivity between the shed and the building may be caused by salt from the road salt pile.

Figure 1 is a map of anomalies. Figure 2 is the EM-31 conductivity contour plot. Figure 3 is the EM-31 inphase contour plot. Figure 4 is the magnetometer contour plot.

4.0 LIMITATIONS

The client-selected areas contained obstructions including high vegetation, trucks, machinery, and other objects. These objects prevented a thorough investigation of the spaces beneath and immediately adjacent to them.

The EM-31 and Mag surveys were kept up to 5 feet away from above ground objects containing metals depending on the sizes, shapes and positions of the metal objects.

All field services were conducted in compliance with the industry standard of care guidelines found in ASCE 38-02 (Level B).

5.0 WARRANTIES

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. Enviroprobe Service, Inc. warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental engineering methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project.

Enviroprobe represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by environmental consultants under similar circumstances. No other representations to Client, express or implied, and no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

Enviroprobe Service, Inc. believes that the information provided in this report is reliable. However, Enviroprobe cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to misinterpretation. Enviroprobe cannot guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, or excavating activities.

This report was prepared pursuant to the contract Enviroprobe has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Enviroprobe and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between Enviroprobe and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to Enviroprobe.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Enviroprobe contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

KEY

Buried metal	
Magnetic high	
Magnetic low	
Building location	
Edge of fill	

This site plan was produced from data positioned by differential GPS measurements collected in the field. Due to the errors normally present in DGPS data, this document is not intended or represented to be of survey precision. Caution should be used in all field measurements based on this site plan.

As with any geophysical method, it must be stressed that caution be used during any excavation or intrusive testing in proximity of any anomalies indicated in this document The absence of detected signatures does not preclude the possibility that targets exist. The geophysical data and results presented in this site plan are based upon the application of scientific principles and professional judgements to certain facts with resultant subjective interpretations. Professional judgements expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget, and schedule.

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DESIGNED BY
DRAWN BY MM
CHECKED BY DL
DATE JUNE 22, 2018
SCALE
HOR.
VERT.
DRAWING NO. MM062218
SHEET NO. 1 of 4

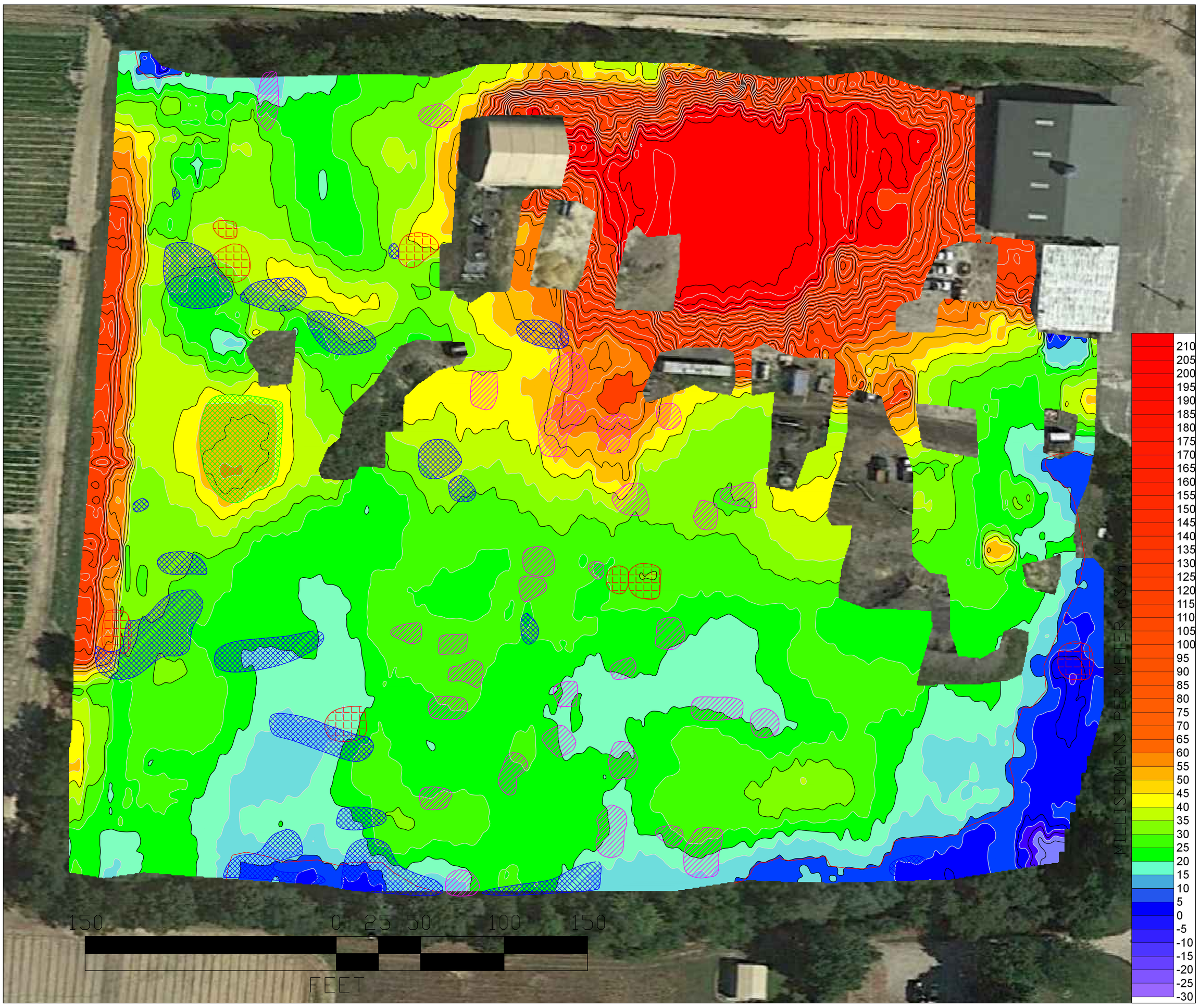
ANOMALOUS AREAS and ESTIMATED LANDFILL BOUNDARY

FOR

CALMAR ASSOCIATES
at 430 UNION ROAD, BUENA VISTA, NJ

ENVIROPROBE SERVICE INC.
81 Marter Avenue, Mount Laurel, NJ 08054
Phone: (800) 596-7472 Fax: (856) 291-6509

DATE	DESCRIPTION	REV.
	REVISIONS	



KEY

Buried metal	
Magnetic high	
Magnetic low	
Building location	
Edge of fill	

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DATE JUNE 22, 2018
SCALE
HOR.
VERT.
DRAWING NO. MM062218
SHEET NO. 2 of 4

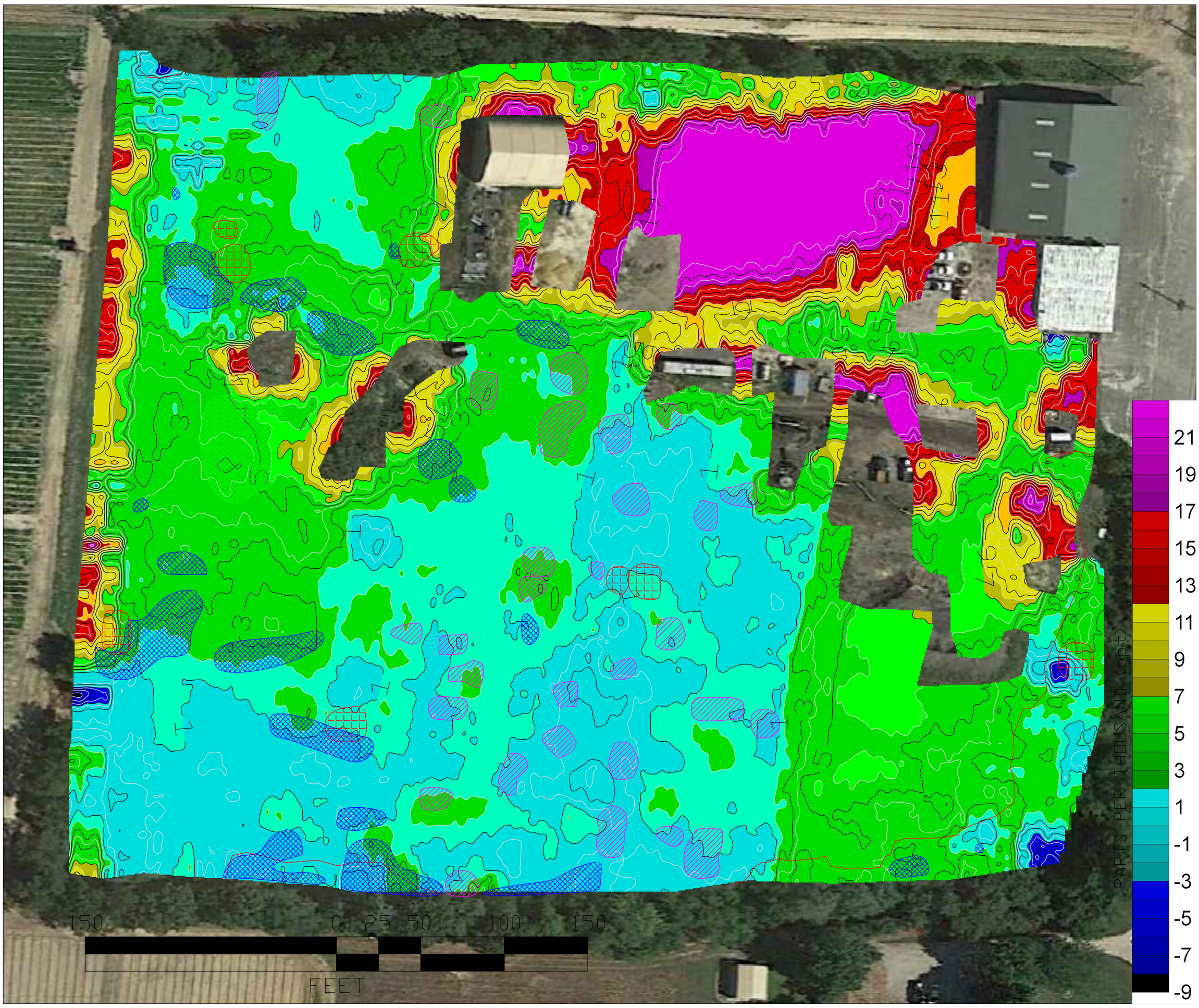
ANOMALOUS AREAS and EM31 CONDUCTIVITY CONTOUR PLOT

FOR

CALMAR ASSOCIATES
at 430 UNION ROAD, BUENA VISTA, NJ

ENVIROPROBE SERVICE INC.
81 Marter Avenue, Mount Laurel, NJ 08054
Phone: (800) 596-7472 Fax: (856) 291-6509

DATE	DESCRIPTION	REV.
	REVISIONS	



KEY

Buried metal	
Magnetic high	
Magnetic low	
Building location	
Edge of fill	

This site plan was produced from data positioned by differential GPS measurements collected in the field. Due to the errors normally present in DGPS data, this document is not intended or represented to be of survey precision. Caution should be used in all field measurements based on this site plan.

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DATE JUNE 22, 2018
SCALE
HOR.
VERT.
DRAWING NO. MM062218
SHEET NO. 3 of 4

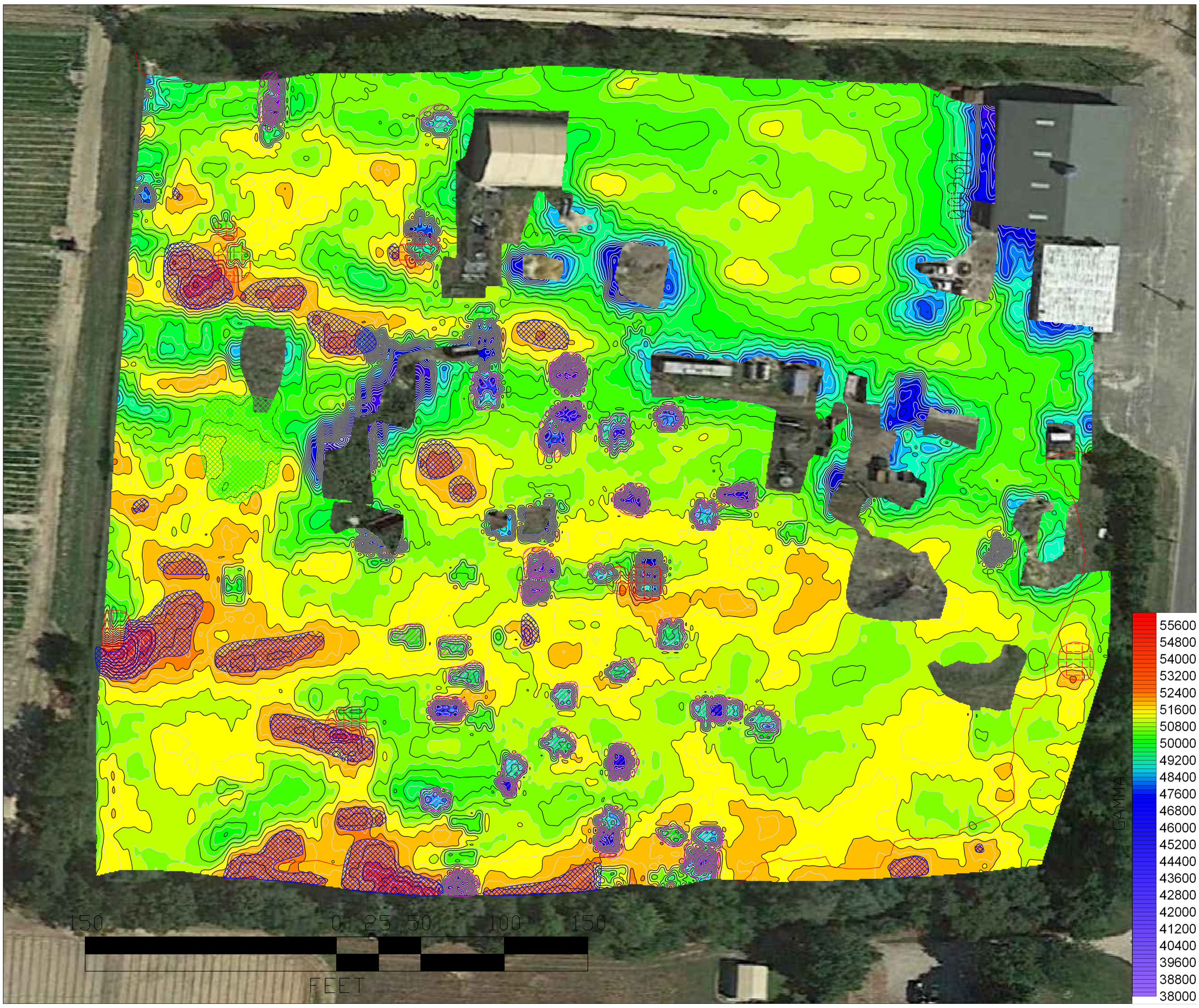
ANOMALOUS AREAS and EM31 INPHASE CONTOUR PLOT

FOR

CALMAR ASSOCIATES
at 430 UNION ROAD, BUENA VISTA, NJ

ENVIROPROBE SERVICE INC.
81 Marter Avenue, Mount Laurel, NJ 08054
Phone: (800) 596-7472 Fax: (856) 291-6509

DATE	DESCRIPTION	REV.
	REVISIONS	



KEY

Buried metal	
Magnetic high	
Magnetic low	
Building location	
Edge of fill	

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DATE JUNE 22, 2018
SCALE
HOR.
VERT.
DRAWING NO. MM062218
SHEET NO. 4 of 4

ANOMALOUS AREAS and MAGNETIC CONTOUR PLOT

FOR

CALMAR ASSOCIATES
at 430 UNION ROAD, BUENA VISTA, NJ

ENVIROPROBE SERVICE INC.
81 Marter Avenue, Mount Laurel, NJ 08054
Phone: (800) 596-7472 Fax: (856) 291-6509

DATE	DESCRIPTION	REV.
	REVISIONS	

APPENDIX B

TEST BORING LOG

Boring ID: SB-1		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-25-18 / 09-25-18		
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.**	**Screen: Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface.** 19' bgs.	**Completion Depth :** 25.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.5		(0.0 - 2.0') 10YR3/1 (very dark grayish brown) Road Base - Sand / Gravel (2.0 - 2.2') Wood Fragments (2.2 - 2.5') 10YR7/3 (very pale brown) - SAND (f)	0.0	N	N	
5 - 10		2.3		(0.2 - 2.3') 10YR4/2 (dark grayish brown) SAND (f), some Silt.	0.0	N	N	Trash / Plastic
10 - 15		1.8		(0.0 - 1.8') 10YR3/2 (very dark grayish brown) SAND (f).	0.0	N	N	Coal Fragments
15 - 20		2.3		(0.0 - 2.3') 10YR5/8 (yellowish brown) grading to 10YR7/2 (light gray) SAND (f), trace Gravel (f), dry, loose.	0.0	N	N	
20 - 25		2.5		(0.0 - 2.5') 10YR8/2 (very pale brown) SAND (vf-f), saturated, loose.	0.0	N	N	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-2		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 09-25-18 / 09-25-18	
Well Installed? Yes X No	**Casing Mat ./ Dia.** PVC / 1"	**Screen: Type:** PVC	**Length:** 10'	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 19' bgs.	**Completion Depth :** 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.5		(0.0 - 1.5') 10YR2/1 (black) Fill Material (1.5 - 2.0') Trash - Plastic/Paper (2.0 - 2.5') 10YR6/3 (pale brown) SAND (f), dry, loose.	0.0	N	N	Trash / Plastic
5 - 10		0.5		(0.0 - 0.5') SAA with Trash	3.5	N	Y	Indistinguishable Odor / Trash
10 - 15	GW	0.5		(0.0 - 0.5') 10YR3/2 (very dark grayish brown) SAND (f-m), little Silt, moist, loose.	3.0	N	Y	Indistinguishable Odor / **GWS-2/15-25**
15 - 20		0.4		(0.0 - 0.4') SAA	3.5	N	Y	Indistinguishable Odor
20 - 25		0.0		No Recovery	--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-3		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-25-18 / 09-25-18		
Well Installed? Yes X No	**Casing Mat ./ Dia.**	**Screen: Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 19' bgs.	**Completion Depth :** 50.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.5		(0.0 - 2.5') 10YR8/1 (black) grading to 10YR5/3 (brown) - SAND (f), some Silt	0.0	N	N	Trash / Plastic
5 - 10		0.8		(0.0 - 0.4') 10YR6/2 (light brownish gray) SAND (f) (0.4 - 0.8') TRASH	0.0	N	N	Trash / Plastic
10 - 15		0.0		No Recovery	--	--	--	Wood in tip of sampler
15 - 20	SOIL	2.2		(0.0 - 0.2') WOOD (0.2 - 1.2') 10YR5/3 (brown) SAND (f-m), trace Gravel (f) (1.2 - 2.2') 10YR3/2 (grayish brown) SAND (f-m), Silt	0.0	N	N	Discolored soil 16 - 17' bgs. / **SB-3/16.0-16.5**
20 - 25		2.5		(0.0 - 1.0') 2.5Y4/4 (olive brown) SAND (f-m), trace Gravel (f) (1.0 - 2.5') 10YR5/1 (gray) SAND (f), little Silt	0.0	N	N	
47 - 50	GW			Direct Push SP-16 Sampler	--	--	--	**GWS-3/47-50**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-4	**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		CALMAR ASSOCIATES, LLC.
	Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling	**Supervisor / Office** RK Seibert / Dorothy, NJ		

Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-25-18 / 09-25-18	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.**	**Screen:** **Type:**	**Length:**	**Dia:** / **Slot Size:**
Elevation Of: **(Ft. Above M.S.L.)**	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface.** 16' bgs. / **Completion Depth :** 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.0		(0.0 - 2.0') 10YR4/4 (dark yellowish brown) SAND (f), some Silt, dry, cohesive	0.0	N	N	
5 - 10		2.7		(0.0 - 1.0') TRASH (1.0 - 2.7') 10YR6/8 (brownish yellow) SAND (vf), little Silt	0.0	N	N	Trash 5 - 6 '
10 - 15		1.8		(0.0 - 1.8') 10YR7/4 (very pale brown) SAND (vf), little Silt, dry, loose	0.0	N	N	
15 - 20	SOIL	3.2		(0.0 - 1.5') SAA (1.5 - 3.2') 10YR7/6 (yellow) SAND (f-c), saturated, loose	0.0	N	Y	Faint Indistiguishable Odor / **SB-4/19.5-20.0**
20 - 25		4.0		(0.0 - 4.0') 10YR6/2 (light brownish gray) SAND (vf), saturated, loose.	0.0	N	N	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-5		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-25-18 / 09-25-18		
Well Installed? Yes X No	**Casing Mat ./ Dia.**	**Screen:** **Type:**	**Length:**	**Dia:**	**Slot** **Size:**
Elevation Of: **(Ft. Above M.S.L.)**	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface.** 19' bgs.	**Completion Depth :** 50.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.0		(0.0 - 0.8') TOPSOIL (0.8 - 2.0') 10YR6/2 (light brownish gray) SAND (f), little Silt, trace Gravel (f)	0.0	N	N	
5 - 10		2.8		(0.0 - 2.8') 10YR7/1 (light gray) SAND (vf), little Silt, trace Gravel (f), moist, loose	0.0	N	N	
10 - 15		3.2		(0.0 - 3.2') SAA	0.0	N	N	
15 - 20		2.8		(0.0 - 2.8') SAA	0.0	N	N	
20 - 25	SOIL	2.6		(0.0 - 0.9') 10YR6/6 (brownish yellow) SAND (f-m), saturated, loose (0.9 - 2.6') 10YR5/1 (gray) SAND (f) and GRAVEL (f), saturated, loose	0.0	N	N	**SB-5/24.5-25.0**
47 - 50	GW			Direct Push SP-16 Sampler	--	--	--	**GWS-5/47-50**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-6		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-25-18 / 09-25-18		
Well Installed? Yes_X_ No_	**Casing Mat ./ Dia.** PVC / 1"	**Screen: Type:** PVC	**Length:** 10'	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 30.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.0		(0.0 - 0.8') TOPSOIL (0.8 - 2.0') 10YR7/1 (light gray) SAND (vf), little Silt, moist, loose	0.0	N	N	Trash
5 - 10		1.9		(0.0 - 1.9') 10YR7/3 (very pale brown) SAND (vf), little Silt, trace Gravel (f), moist, loose	0.0	N	N	Wood fragments 5.0 - 5.5'
10 - 15		2.5		(0.0 - 2.5') 10YR8/1 (white) SAND (vf), moist, loose	0.0	N	N	
15 - 20		2.3		(0.0 - 2.0') 10YR5/4 (yellowish brown) SAND (f-m), little Silt, trace Gravel (f), moist, loose (2.0 - 2.3') 10YR7/2 (light gray) SAND (f-m), little Silt, trace Gravel (f), moist, loose	0.0	N	N	
20 - 25	GW	2.6		(0.0 - 2.6') 10YR7/2 (light gray) SAND (f-m), trace Gravel (f), saturated, loose	0.0	N	N	**GWS-6/20-30**
25 - 30	SOIL	2.6		SAA	0.0	N	N	**SB-6/25.5-26.0**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-7	**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		**CALMAR ASSOCIATES, LLC.**
	Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling	**Supervisor / Office** RK Seibert / Dorothy, NJ		

Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-26-18 / 09-26-18	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.**	**Screen:** **Type:**	**Length:**	**Dia:** / **Slot Size:**
Elevation Of: **(Ft. Above M.S.L.)**	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:** / **Completion Depth :** 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.7		(0.0 - 1.0') TOPSOIL (1.0 - 2.7') 10YR7/1 (dark yellowish brown) SAND (vf), trace Silt, dry, loose	0.0	N	N	
5 - 10		1.8		(0.0 - 0.2') SAA (0.2 - 1.8') 10YR3/1 (vert dark gray) SAND (f), Trash and Wood Fragments, moist, loose	0.0	N	N	Trash 5.2 - 6.8 '
10 - 15		1.3		(0.0 - 1.3') TRASH, Wood and Brick Fragments	0.0	N	N	Trash
15 - 20		0.5		(0.0 - 0.5') SAA	0.0	N	Y	Trash / Methane Odor
20 - 25		3.0		(0.0 - 0.5') TRASH (0.5 - 3.0') 10YR5/2 (grayish brown) SAND (f), dry, loose.	0.0	N	N	Trash 20.0 - 20.5'

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-8		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-26-18 / 09-26-18		
Well Installed? Yes___ No X	**Casing Mat ./ Dia.**	**Screen:** **Type:**	**Length:**	**Dia:**	**Slot** **Size:**
Elevation Of: **(Ft. Above M.S.L.)**	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 25.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		1.7		(0.0 - 0.2') TOPSOIL (0.2 - 1.7') 10YR6/6 (brownish yellow) SAND (f), little Silt, trace Gravel (f), moist	0.0	N	Y	Trash / Methane Odor
5 - 10		1.1		(0.0 - 1.1') 10YR7/1 (light gray) SAND (f) and TRASH, moist	0.0	N	N	Trash / Plastic / Wood
10 - 15		0.9		(0.0 - 0.9') 10YR4/2 (dark grayish brown) SAND (f) and TRASH, moist	0.0	N	N	Trash / Plastic / Wood
15 - 20		0.0		Refusal at 16.5' bgs. No Recovery. Move 5' and re-drill	--	--	--	
20 - 25	SOIL	2.8		(0.0 - 2.6') 10YR5/1 (gray) SAND (f-m), saturated, loose	0.0	N	N	**SB-8/23.0-23.5**
25 - 30								

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-9	***Project No. / Name*** #18-1823 / Buena Vista Twp. Public Works Yard		**CALMAR ASSOCIATES, LLC.**
	Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling	***Supervisor / Office*** RK Seibert / Dorothy, NJ		

Drilling Equipment / Method Geoprobe	***Size / Type of Bit*** Direct Push	***Sampling Method*** Direct Push	***Start / Finish Date*** 09-26-18 / 09-26-18

Well Installed? Yes X No	***Casing Mat ./ Dia.*** PVC / 1"	***Screen:*** ***Type:*** PVC	***Length:*** 10'	***Dia:*** 1"	***Slot Size:*** 10-slot

Elevation Of: (Ft. Above M.S.L.)	***Ground Surface***	***Top of Well Casing***	***Top & Bottom of Screen***	***Ground Water Surface:***	***Completion Depth*** : 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		1.2		(0.0 - 1.2') 10YR3/1 (very dark gray) SAND (f) and TRASH	0.0	N	N	Trash
5 - 10		1.3		(0.0 - 1.3') SAA	0.0	N	N	Trash
10 - 15		0.3		(0.0 - 0.3') SAA	0.0	N	Y	Trash / Methane Odor
15 - 20	GW	0.0		No Recovery	--	--	--	**GWS-9/15-25**
20 - 25		0.0		No Recovery - Wood in tip of sampler	--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-10		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-26-18 / 09-26-18		
Well Installed? Yes X No	**Casing Mat ./ Dia.** PVC / 1"	**Screen:** **Type:** PVC	**Length:** 10'	**Dia:** 1"	**Slot** **Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 21' bgs.	**Completion Depth :** 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.8		(0.0 - 1.3') 10YR3/1 (dark yellowish br.) - SAND (vf) (0.3 - 1.7') 10YR2/2 (very dark brown) - SAND (f-m) (1.7 - 2.8') 10YR7/6 (yellow) - SAND (f-m)	0.0	N	N	
5 - 10		2.0		(0.0 - 1.3') 10YR5/8 (yellowish brown) SAND (f-m), trace Gravel (f)	0.0	N	N	Trash
10 - 15		1.2		(0.0 - 1.2') SAA - Refusal at 13' bgs. Move 5' and re-drill	0.0	N	N	
15 - 20		2.9		(0.0 - 2.9') 10YR5/3 (brown) SAND (f), little Silt	0.0	N	N	**GWS-10/15-25**
20 - 25		2.9		(0.0 - 2.9') 10YR6/4 (light yellowish brown) SAND (f-m), little Silt, saturated, loose	0.0	N	N	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-11		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 09-26-18 / 09-26-18	
Well Installed? Yes X No	**Casing Mat ./ Dia.** PVC / 1"	**Screen: Type:** PVC	**Length:** 10'	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 14' bgs.	**Completion Depth :** 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.0		(0.0 - 2.5') 10YR6/4 (light yellowish brown) SAND (f-m), some Silt, moist	0.0	N	N	Trash
5 - 10		2.0		(0.0 - 2.0') 10YR2/1 (black) SAND (vf), little Silt, Brick and Glass Fragments	0.0	N	N	Trash
10 - 15		1.0		(0.0 - 1.0') SAA	0.0	N	N	Trash
15 - 20		0.0		No Recovery - Stones (black) in tip of sampler	--	--	--	Install temporary well (15 - 25" bgs.) to gauge static water elevation.
20 - 25	SOIL	2.0		(0.0 - 2.0') 10YR4/1 (dark gray) SAND (f), trace Gravel (f), saturated, loose	0.0	N	N	**SB-11/24.5-25.0**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-12		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 09-26-18 / 09-26-18		
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.**	**Screen:** **Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: **(Ft. Above M.S.L.)**	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 25.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		1.2		(0.0 - 2.5') 10YR3/1 (very dark gray) SAND (f-c), dry loose	0.0	N	N	
5 - 10		0.0		No Recovery	--	--	--	Perched water, within subsurface debris, entering boring annulus.
10 - 15		0.0		No Recovery	--	--	--	
15 - 20		0.0		No Recovery	--	--	--	
20 - 25		0.0		No Recovery	--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-13	***Project No. / Name*** #18-1823 / Buena Vista Twp. Public Works Yard		CALMAR ASSOCIATES, LLC.
	Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling	***Supervisor / Office*** RK Seibert / Dorothy, NJ		

Drilling Equipment / Method Geoprobe	***Size / Type of Bit*** Direct Push	***Sampling Method*** Direct Push	***Start / Finish Date*** 09-26-18 / 09-26-18	
Well Installed? Yes___ No_X_	***Casing Mat ./ Dia.***	***Screen: Type:***	***Length:***	***Dia:*** / ***Slot Size:***
Elevation Of: (Ft. Above M.S.L.)	***Ground Surface***	***Top of Well Casing***	***Top & Bottom of Screen***	***Ground Water Surface:*** / ***Completion Depth*** : 25.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		0.0		Direct Push	--	--	--	
5 - 10		0.0		Direct Push	--	--	--	
10 - 15	SOIL	1.0		(0.0 - 0.5') TRASH (0.5 - 1.0') 10YR5/4 (yellowish brown) SAND (f-m), dry, loose	0.0	N	N	Trash 0.0 - 0.5' / **SB-13/10.5-11.0**
15 - 20		2.6		(0.0 - 2.6') 10YR5/1 (gray) SAND (f-m), trace Gravel (f), saturated, loose	0.0	N	N	
20 - 25		1.5		(0.0 - 1.5') SAA	0.0	N	N	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-14		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-18-19 / 03-18-19	
Well Installed? Yes X No	**Casing Mat ./ Dia.** PVC / 1"	**Screen: Type:** PVC	**Length:** 19'	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 11.5 bgs.	**Completion Depth :** 20.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5	GW	2.7		(0.0 - 0.5') TOPSOIL (0.5 - 2.7') 7.5YR5/8 (strong brown) SAND (f) and SILT, trace Gravel (f), cohesive, stiff	0.0	N	N	**GWS-14/0-19**
5 - 10		2.4		(0.0 - 2.4') SAA	0.0	N	N	
10 - 15		1.9		(0.0 - 1.9') SAA	0.0	N	N	
15 - 20	SOIL	3.5		(0.0 - 1.5') 7.5YR5/8 (strong brown) SAND (f-m), little Silt, saturated, loose (1.5 - 3.5') 10YR6/8 (brownish yellow) SAND (f-m), saturated, loose	0.0	N	N	**SB-14/15.0-15.5**
20 - 25								

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-15		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 03-18-19 / 03-18-19		
Well Installed? Yes___ No X	**Casing Mat ./ Dia.**	**Screen: Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 11.5 bgs.	**Completion Depth :** 20.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		1.5		(0.0 - 0.5') TOPSOIL (0.5 - 1.5') 7.5YR5/8 (strong brown) SAND (f) and SILT, cohesive, stiff	0.0	N	N	
5 - 10		4.0		(0.0 - 2.4') SAA	0.0	N	N	
10 - 15		3.2		(0.0 - 3.2') 10YR6/8 (yellowish brown) SAND (f-m), little Silt, trace Gravel (f), saturated	0.0	N	N	
15 - 20	SOIL	3.0		(0.0 - 2.2') 10YR6/8 (yellowish brown) SAND (f-m), little Silt, trace Gravel (f), saturated (2.2 - 3.0') 10YR5/2 (grayish brown) SAND (m), little Gravel (f-c), saturated, loose	0.0	N	N	**SB-15/15.0-15.5**
20 - 25	--	--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-16		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-18-19 / 03-19-19	
Well Installed? Yes_X_ No_	**Casing Mat ./ Dia.**	**Screen: Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface.** 11' bgs	**Completion Depth :** 50.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.3		(0.0 - 0.9') TOPSOIL (0.9 - 2.3') 7.5YR5/8 (strong brown) SILTY SAND (vf), tight, moist, cohesive	0.0	N	N	
5 - 10		3.8		(0.0 - 2.0') SAA (0.0 - 2.0') 10YR6/8 (brownish yellow) SAND (vf), little Silt, trace Gravel (f), moist, firm	0.0	N	N	
10 - 15	SOIL	2.5		(0.0 - 2.5') 10YR7/6 (yellow) SAND (f), some Gravel (f), little Silt, loose, saturated at 11' bgs.	0.0	N	N	**SB-16/11.5-12.0**
15 - 20		3.5		(0.0 - 3.5') 10YR7/6 (yellow) SAND (f), some Gravel (f), little Silt, saturated, loose	0.0	N	N	
--		--			--	--	--	
47 - 50	GW			Direct Push SP-16 Sampler	--	--	--	**GWS-16/47-50**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-17		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-18-19 / 03-18-19	
Well Installed? Yes___ No X	**Casing Mat ./ Dia.**	**Screen: Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 11.5 bgs.	**Completion Depth :** 20.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 5		2.8		(0.0 - 1.0') TOPSOIL (1.0 - 2.8') 7.5YR5/8 (strong brown) SAND (vf) and SILT, cohesive, stiff	0.0	N	N	
5 - 10		3.3		(0.0 - 3.3') 10YR6/8 (yellowish brown) SAND (vf), some Silt, moist, sl. cohesive	0.0	N	N	
10 - 15		4.0		(0.0 - 4.0') SAA	0.0	N	N	
15 - 20	SOIL	3.8		(0.0 - 3.8') 10YR6/4 (light yellowish brown) SAND (f-c), little Silt, some Gravel (f), saturated, loose	0.0	N	N	**SB-17/19.5-20.0**
20 - 25	--	--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-18		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			**CALMAR ASSOCIATES, LLC.**
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push	**Sampling Method** Direct Push	**Start / Finish Date** 03-19-19 / 03-19-19		
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.**	**Screen:** **Type:**	**Length:**	**Dia:**	**Slot** **Size:**
Elevation Of: **(Ft. Above M.S.L.)**	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 50.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
47 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-18/47-50**
		--			--	--	--	
		--			--	--	--	
		--			--	--	--	
		--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-19			**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		**CALMAR ASSOCIATES, LLC.**
			Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling			**Supervisor / Office** RK Seibert / Dorothy, NJ		
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-19-19 / 03-19-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.**	**Screen: Type:**	**Length:**	**Dia:**	**Slot Size:**
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 40.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
36 - 40	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-19/36-40**
		--			--	--	--	
		--			--	--	--	
		--			--	--	--	
		--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-20		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-20-19 / 03-20-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.** PVC / 1":	**Screen: Type:** PVC	**Length:** 19"	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 11.8' bgs	**Completion Depth** : 100.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 19	GW	--		Temporary PVC well	--	--	--	**GWS-20/0-19**
46 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-20/46-50**
71 - 75	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-20/71-75**
96 - 100	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-20/96-100**
		--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-21			**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		**CALMAR ASSOCIATES, LLC.**
			Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling			**Supervisor / Office** RK Seibert / Dorothy, NJ		
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-25-19 / 03-26-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.** PVC / 1":	**Screen: Type:** PVC	**Length:** 15"	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 100.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 15	GW	--		Temporary PVC well	--	--	--	**GWS-21/0-15**
36-40	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-21/36-40**
46 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-21/46-50**
71 - 75	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-21/71-75**
96 - 100	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-21/96-100**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-22			**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		CALMAR ASSOCIATES, LLC.
			Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling			**Supervisor / Office** RK Seibert / Dorothy, NJ		
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 03-26-19 / 03-27-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.** PVC / 1":	**Screen:** **Type:** PVC	**Length:** 15"	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 100.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 15	GW	--		Temporary PVC well	--	--	--	**GWS-22/0-15**
26 - 30	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-22/26-30**
46 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-22/46-50**
71 - 76	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-22/71-75**
96 - 100	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-22/96-100**

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-23			**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		
			Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling			**Supervisor / Office** RK Seibert / Dorothy, NJ		
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 04-01-19 / 04-01-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.** PVC / 1":	**Screen: Type:** PVC	**Length:** 18"	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 100.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 18	GW	--		Temporary PVC well	--	--	--	**GWS-23/0-18**
46 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-23/46-50**
71 - 75	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-23/71-75**
96 - 100	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-23/96-100**
		--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-24			**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard		
			Location Buena Vista Township, New Jersey		
Drilling Contractor / Driller B&F Drilling			**Supervisor / Office** RK Seibert / Dorothy, NJ		
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 04-01-19 / 04-02-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.** PVC / 1":	**Screen: Type:** PVC	**Length:** 15"	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface** 4.9' bgs.	**Completion Depth :** 100.0 ft.

Remarks:

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 15	GW	--		Temporary PVC well	--	--	--	**GWS-24/0-15**
46 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-24/46-50**
71 - 75	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-24/71-75**
96 - 100	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-24/96-100**
		--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

TEST BORING LOG

Boring ID: SB-25		**Project No. / Name** #18-1823 / Buena Vista Twp. Public Works Yard			CALMAR ASSOCIATES, LLC.
		Location Buena Vista Township, New Jersey			
Drilling Contractor / Driller B&F Drilling		**Supervisor / Office** RK Seibert / Dorothy, NJ			
Drilling Equipment / Method Geoprobe	**Size / Type of Bit** Direct Push		**Sampling Method** Direct Push	**Start / Finish Date** 04-04-19 / 04-04-19	
Well Installed? Yes___ No_X_	**Casing Mat ./ Dia.** PVC / 1":	**Screen: Type:** PVC	**Length:** 15"	**Dia:** 1"	**Slot Size:** 10-slot
Elevation Of: (Ft. Above M.S.L.)	**Ground Surface**	**Top of Well Casing**	**Top & Bottom of Screen**	**Ground Water Surface:**	**Completion Depth :** 100.0 ft.
Remarks:					

LOG OF TEST BORING

Depth (FT)	Sample Type	Recovery (FT)	Penetration Resistance Blows/6"	Description	PID (ppm)	Visible Impact (Y/N)	Odor (Y/N)	Remarks
0 - 15	GW	--		Temporary PVC well	--	--	--	**GWS-25/0-15**
46 - 50	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-25/46-50**
71 - 75	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-25/71-75**
96 - 100	GW	--		Direct Push SP-16 sampler	--	--	--	**GWS-25/96-100**
		--			--	--	--	

SAA = Same as Above
BGS = Below Ground Surface

APPENDIX C

DWR-133 (5/85)

5

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Mail to
Water Allocation
CN 029
Trenton, N.J. 08625

Permit No. 3506406-4

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P. 35.03.6 24

Owner: Buena Vista Twp.
Address: Harding Hi-Way
Buena, N.J. 08310

Name of Facility: Buena Vista Twp Landfill
Address: N. Union Rd.
E. Vineland, N.J. 08360

Driller: Jack Quinlan
Address: E. Landis Ave.
E. Vineland, N.J. 08360

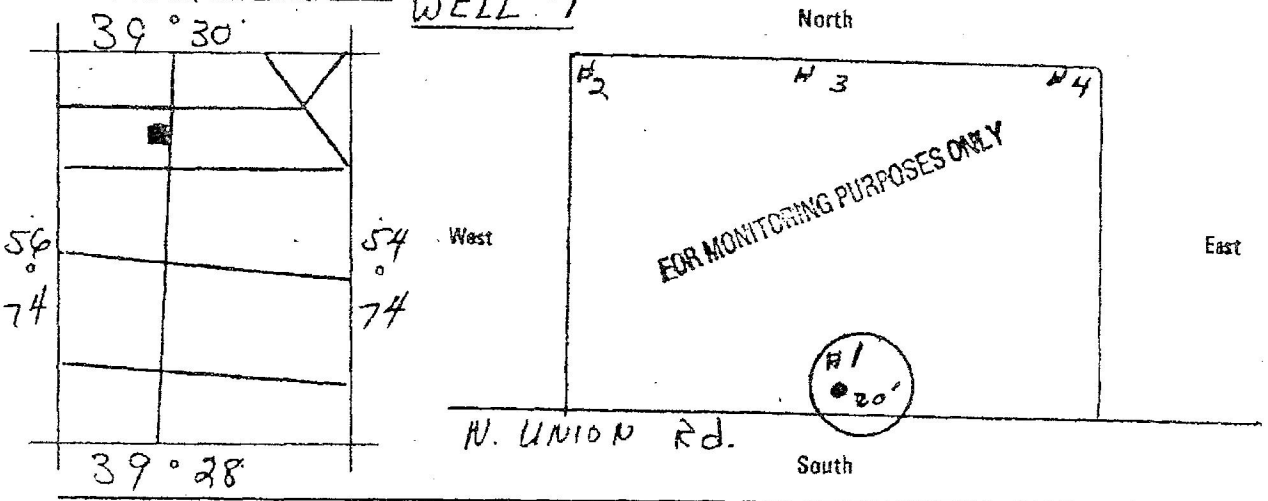
Diameter of Well	4 Inches	Proposed Depth of Well	40 Feet
Proposed Capacity of Pump	2 GPM	Method of Drilling (cable-tool, rotary, etc.)	Rotary
Use of Well (See Reverse)	Monitoring		

LOCATION OF WELL

Lot #	Block#	Municipality	County
2A	182	Buena Vista Twp	Atlantic

State Atlas Map No. 35

Draw sketch showing distance and relations of well site to nearest public roads, streets, septic systems, etc.



SEE REVERSE SIDE for IMPORTANT PROVISIONS AND REGULATIONS pertaining to this permit. APPROVAL of this permit is made SUBJECT TO acceptance of and compliance with the following ADDITIONAL CONDITIONS.

- ☐ Pinelands - Well must be drilled over 100' deep or a clay layer at least 4' in thickness must be encountered.
- ☐ It is necessary that Geophysical Logs of this well be made. Permanent pumping equipment SHALL NOT be installed until such logs are made.
- ☐ Authorization by rule under N.J.A.C. 7:14A-1 et seq.
- ☐ Samples of cuttings required every _____ feet or change in material.
- ☐ The results of a volatile organic scan mut be obtained prior to using the water and submitted to _____.
- ☐ Domestic Potable Water Supply - The service line for water from the public community water supply system shall be turned off at the curb cock, and the meter shall be removed by the water purveyor.
- ☐ Domestic Irrigation Supply - No piping from the well for which the permit applies shall enter any building.
- ☐ Industrial/Commercial Supply - A physical connection permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10-1 et seq., and a vigorous cross connections control program shall be instituted and maintained within the premises.
- ☐ Heat Pump Wells - Wells must be 50 feet apart and the water must be returned to the same aquifer as the production well.
- ☐ _____

This Space for Approval Stamp

WELL PERMIT APPROVED
Dept. of Environmental Protection
Water Resources/Water Allocation

APR 07 1987

In compliance with R.S. 58:4A-14, application is made for a permit to drill a well as described above.

Date 3/24/87

Authorized Agent: Signature of Owner Jack Quinlan

COPIES: Water Allocation – White Health Dept. – Yellow Owner – Blue

WELPMT 011 0007

Form GWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 35 - 06406-4
Atlas Sheet Coordinates 35 : 03 : 6224

OWNER IDENTIFICATION - Owner Buena Vista Township
Address Harding Hi-Way
City Buena State N.J. Zip Code 08310

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address N. Union Rd.
County Atlantic Municipality Buena Vista Twp Lot No. 2A Block No. 182

WELL USE Monitoring Status Completed

WATER USE Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 4 / 5 / 88
Depths: Total 41 ft. Finished 41 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 110 ft. Elevation was determined using map
Casing Height (stick-up) above land surface 18" ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		21	4	PVC
Casing 2				
Casing 3				
Screen 1	21	20	4	PVC .020
Screen 2				
Tail Piece				
Gravel Pack	21	20		#1
Grout	0	21		Bentonite
Grouting Method				

WELL FLOWS NATURALLY No gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 4 / 5 / 88
Static water-level before pumping 21.5 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using electric Drawdown ft.
Discharge rate measured using Discharge Rate 10+ gals. per min.
Well was pumped using air Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by None Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor Quinlan Well Drilling
Address E. Landis Ave.
City E. Vineland State N.J. Zip Code 08360
Name of Driller Jack Quinlan License No. 962

Signature of Contractor Jack Quinlan Date 11 / 1 / 88

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

JWR-133 (5/85)

5

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Mail to
Water Allocation
CN 029
Trenton, N.J. 08625

Permit No. 3500405-6

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P. 35.03.6 24

Owner Buena Vista Twp.
Address Harding Hi-Way
Buena, N.J. 08310

Name of Facility Buena Vista Twp. Landfill
Address N. Union Rd.
E. Vineland, N.J. 08360

Driller Jack Quinlan
Address E. Landis Ave.
E. Vineland, N.J. 08360

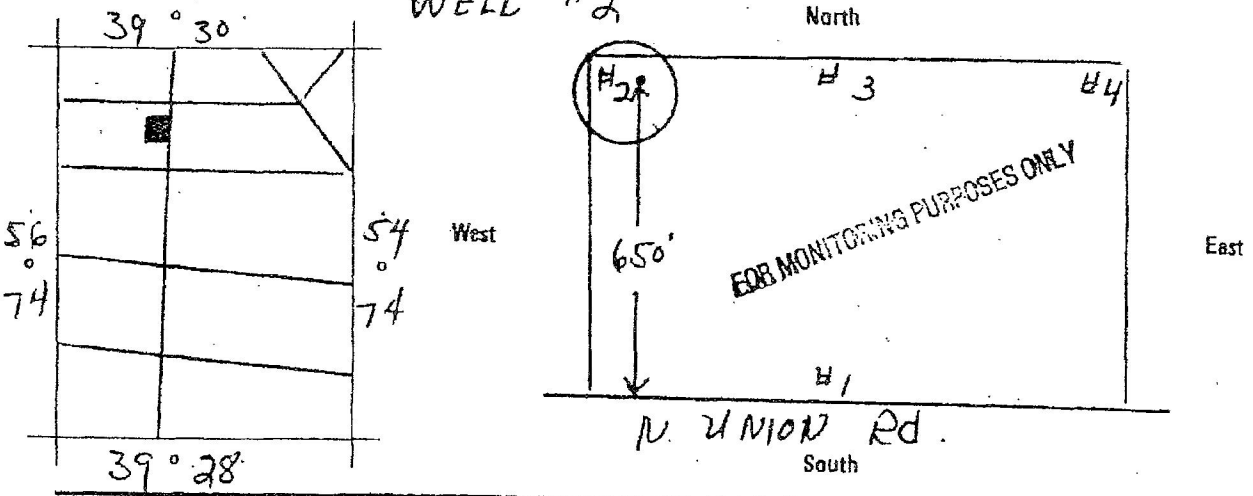
Diameter of Well	4 Inches	Proposed Depth of Well	40 Feet
Proposed Capacity of Pump	2 GPM	Method of Drilling (cable-tool, rotary, etc.)	Rotary
Use of Well (See Reverse)	Monitoring		

LOCATION OF WELL

Lot #	Block #	Municipality	County
2A	182	Buena Vista Twp	Atlantic

State Atlas Map No. 35

Draw sketch showing distance and relations of well site to nearest public roads, streets, septic systems, etc.



SEE REVERSE SIDE for IMPORTANT PROVISIONS AND REGULATIONS pertaining to this permit. APPROVAL of this permit is made SUBJECT TO acceptance of and compliance with the following ADDITIONAL CONDITIONS.

- ☐ Pinelands - Well must be drilled over 100' deep or a clay layer at least 4' in thickness must be encountered.
- ☐ It is necessary that Geophysical Logs of this well be made. Permanent pumping equipment SHALL NOT be installed until such logs are made.
- ☐ Authorization by rule under N.J.A.C. 7:14A-1 et seq.
- ☐ Samples of cuttings required every _____ feet or change in material.
- ☐ The results of a volatile organic scan mut be obtained prior to using the water and submitted to _____.
- ☐ **Domestic Potable Water Supply** - The service line for water from the public community water supply system shall be turned off at the curb cock, and the meter shall be removed by the water purveyor.
- ☐ **Domestic Irrigation Supply** - No piping from the well for which the permit applies shall enter any building.
- ☐ **Industrial/Commercial Supply** - A physical connection permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10-1 et seq., and a vigorous cross connections control program shall be instituted and maintained within the premises.
- ☐ **Heat Pump Wells** - Wells must be 50 feet apart and the water must be returned to the same aquifer as the production well.
- ☐ _____

This Space for Approval Stamp

WELL PERMIT APPROVED
Dept. of Environmental Protection
Water Resources/Water Allocation
APR 07 1987

In compliance with R.S. 58:4A-14, application is made for a permit to drill a well as described above.

Date 3/24/87

Authorized Agent: Jack Quinlan
Signature of Owner

COPIES: *Water Allocation – White* *Health Dept. – Yellow* *Owner – Blue*

WELPMT 011 0006

Form DWR-138
11/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 35 - 06405 - 6
Atlas Sheet Coordinates 35 : 03 : 6 - Y

OWNER IDENTIFICATION - Owner Buena Vista Township
Address Harding Hi-Way
City Buena State N.J. Zip Code 08310

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address N. Union Rd.
County Atlantic Municipality Buena Vista Twp Lot No. 24 Block No. 182

WELL USE Monitoring Status Completed

WATER USE Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 4 / 5 / 88
Depths: Total 42.5 ft. Finished 42.5 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 110 ft. Elevation was determined using map
Casing Height (stick-up) above land surface 18" ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		22.5	4	PVC
Casing 2				
Casing 3				
Screen 1	22.5	20	4	PVC .020
Screen 2				
Tail Piece				
Gravel Pack	22.5	20		#1
Grout	0	22.5		Bentonite
Grouting Method				

WELL FLOWS NATURALLY No gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 4 / 5 / 88
Static water level before pumping 22.5 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using tape Drawdown ft.
Discharge rate measured using Discharge Rate 20 gals. per min.
Well was pumped using air Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by None Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor Quinlan Well Drilling
Address E. Landis Ave.
City E. Vineland State N.J. Zip Code 08360
Name of Driller Jack Quinlan License No. 962

Signature of Contractor Jack Quinlan Date 11 / 1 / 88

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-133 (5/85)

5

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Mail to
Water Allocation
CN 029
Trenton, N.J. 08625

Permit No. 3506404-8

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P. 35 03.4 24

Owner Buena Vista Twp.
Address Harding- Hi-Way
Buena, N.J. 08310
Name of Facility Buena Vista Twp. Landfill
Address N. Union Rd.
E. Vineland, N.J. 08360

Driller Jack Quinlan
Address E. Landis Ave.
E. Vineland, N.J. 08360

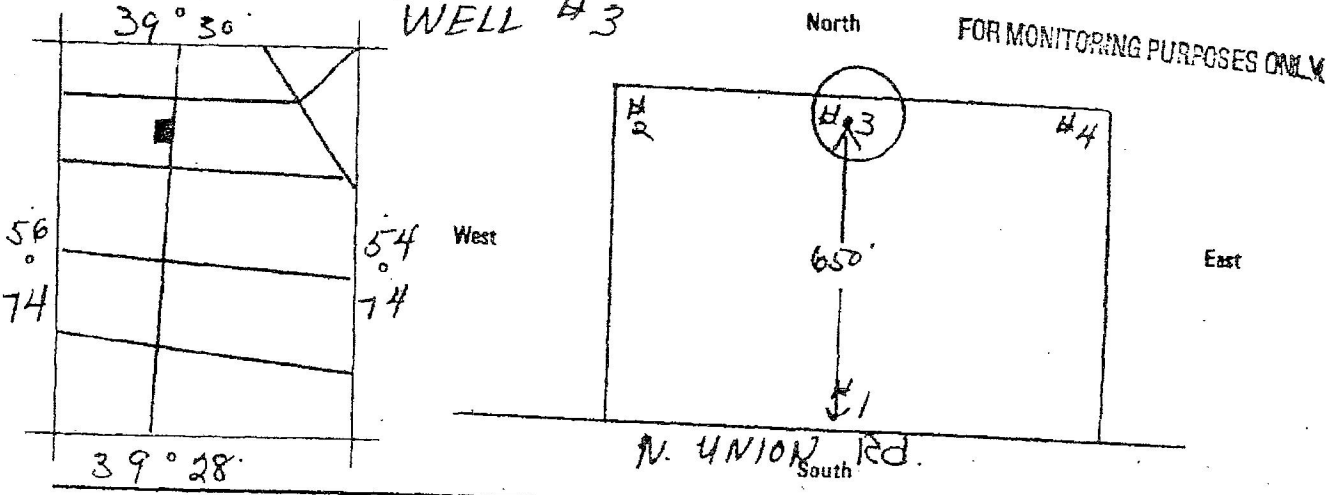
Diameter of Well	4 Inches	Proposed Depth of Well	40 Feet
Proposed Capacity of Pump	2 GPM	Method of Drilling (cable-tool, rotary, etc.)	Rotary
Use of Well (See Reverse)	Monitoring		

LOCATION OF WELL

Lot #	Block #	Municipality	County
2A	182	Buena Vista Twp	Atlantic

State Atlas Map No. 35

Draw sketch showing distance and relations of well site to nearest public roads, streets, septic systems, etc.



SEE REVERSE SIDE for IMPORTANT PROVISIONS AND REGULATIONS pertaining to this permit. APPROVAL of this permit is made SUBJECT TO acceptance of and compliance with the following ADDITIONAL CONDITIONS.

- ☐ Pinelands - Well must be drilled over 100' deep or a clay layer at least 4' in thickness must be encountered.
- ☐ It is necessary that Geophysical Logs of this well be made. Permanent pumping equipment SHALL NOT be installed until such logs are made.
- ☐ Authorization by rule under N.J.A.C. 7:14A-1 et seq.
- ☐ Samples of cuttings required every _____ feet or change in material.
- ☐ The results of a volatile organic scan mut be obtained prior to using the water and submitted to _____.
- ☐ **Domestic Potable Water Supply** - The service line for water from the public community water supply system shall be turned off at the curb cock, and the meter shall be removed by the water purveyor.
- ☐ **Domestic Irrigation Supply** - No piping from the well for which the permit applies shall enter any building.
- ☐ **Industrial/Commercial Supply** - A physical connection permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10-1 et seq., and a vigorous cross connections control program shall be instituted and maintained within the premises.
- ☐ **Heat Pump Wells** - Wells must be 50 feet apart and the water must be returned to the same aquifer as the production well.
- ☐ _____

This Space for Approval Stamp

WELL PERMIT APPROVED
Dept. of Environmental Protection
Water Resources / Water Allocation
APR [illegible] 1987

In compliance with R.S. 58:4A-14, application is made for a permit to drill a well as described above.

Date 3/24/87

Authorized Agent: Jack Quinlan
Signature of Owner

COPIES: *Water Allocation – White* *Health Dept. – Yellow* *Owner – Blue*

WELPMT 011 0005

Form GWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 35 - 06404 - 8
Atlas Sheet Coordinates 35 : 03 : 624

OWNER IDENTIFICATION - Owner Buena Vista Township
Address Harding Hi-Way
City Buena State N.J. Zip Code 08310

WELL LOCATION - If not the same owner please give address. Owner's Well No.
Address N. Union Rd.
County Atlantic Municipality Buena Vista Twp Lot No. 24 Block No. 182

WELL USE Monitoring Status Completed

WATER USE Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 4 / 5 / 88
Depths: Total 42.5 ft. Finished 42.5 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 110 ft. Elevation was determined using map
Casing Height (stick-up) above land surface ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		22.5	4	PVC
Casing 2				
Casing 3				
Screen 1	22.5	20	4	PVC .020
Screen 2				
Tail Piece				
Gravel Pack	22.5	20		#1
Grout	0	22.5		Bentonite
Grouting Method				

WELL FLOWS NATURALLY No gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date 4 / 5 / 88
Static water-level before pumping 25 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using tape line Drawdown ft.
Discharge rate measured using Discharge Rate 10+ gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by None Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor Quinlan Well Drilling
Address E. Landis Ave.
City E. Vineland State N.J. Zip Code 08360
Name of Driller Jack Quinlan License No. 962

Signature of Contractor Jack Quinlan Date 11 / 1 / 88

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

DWR-133 (5/85)

5

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
TRENTON, N.J.

Mail to
Water Allocation
CN 029
Trenton, N.J. 08625

Permit No. 3506403-0

PERMIT TO DRILL WELL

VALID ONLY AFTER APPROVAL BY THE D.E.P. 35.03.624

Owner Buena Vista Twp.
Address Harding Hi-Way
Buena, N.J. 08310
Name of Facility Buena Vista Twp Landfill
Address N. Union Rd.
E. Vineland, N.J. 08360

Driller Jack Quinlan
Address E. Landis Ave.
E. Vineland, N.J. 08360

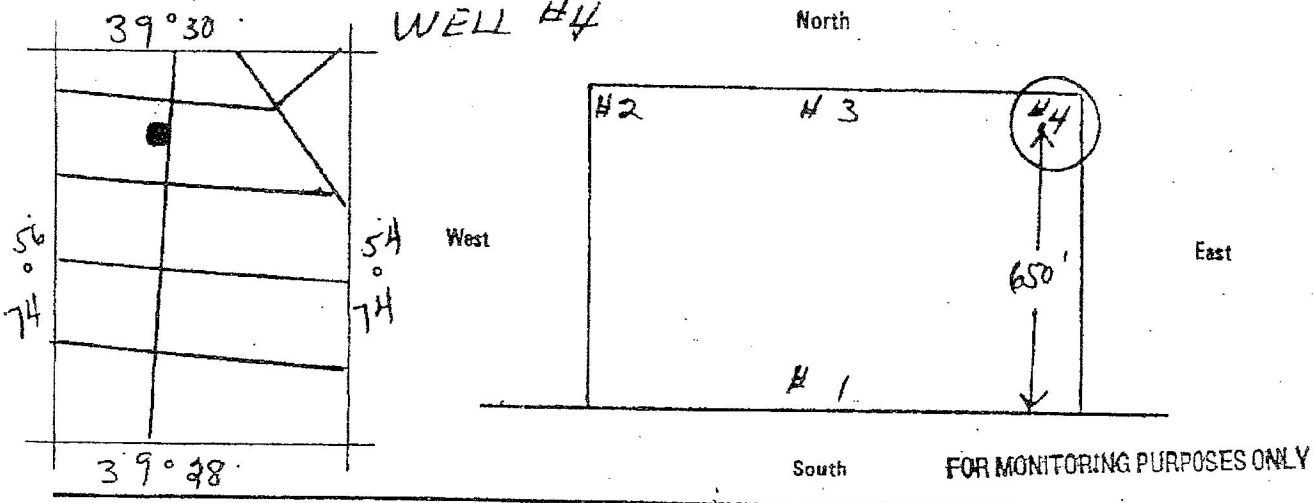
Diameter of Well	4 Inches	Proposed Depth of Well	40 Feet
Proposed Capacity of Pump	2 GPM	Method of Drilling (cable-tool,rotary,etc.)	Rotary
Use of Well (See Reverse)	Monitoring		

LOCATION OF WELL

Lot #	Block #	Municipality	County
2A	182	Buena Vista Twp	Atlantic

State Atlas Map No. 35

Draw sketch showing distance and relations of well site to nearest public roads, streets, septic systems, etc.



FOR MONITORING PURPOSES ONLY

SEE REVERSE SIDE for IMPORTANT PROVISIONS AND REGULATIONS pertaining to this permit. APPROVAL of this permit is made SUBJECT TO acceptance of and compliance with the following ADDITIONAL CONDITIONS.

- ☐ Pinelands - Well must be drilled over 100' deep or a clay layer at least 4' in thickness must be encountered.
- ☐ It is necessary that Geophysical Logs of this well be made. Permanent pumping equipment SHALL NOT be installed until such logs are made.
- ☐ Authorization by rule under N.J.A.C. 7:14A-1 et seq.
- ☐ Samples of cuttings required every _____ feet or change in material.
- ☐ The results of a volatile organic scan must be obtained prior to using the water and submitted to _____
- ☐ **Domestic Potable Water Supply** - The service line for water from the public community water supply system shall be turned off at the curb cock, and the meter shall be removed by the water purveyor.
- ☐ **Domestic Irrigation Supply** - No piping from the well for which the permit applies shall enter any building.
- ☐ **Industrial/Commercial Supply** - A physical connection permit shall be obtained pursuant to the provisions of N.J.A.C. 7:10-10-1 et seq., and a vigorous cross connections control program shall be instituted and maintained within the premises.
- ☐ **Heat Pump Wells** - Wells must be 50 feet apart and the water must be returned to the same aquifer as the production well.
- ☐ _____

This Space for Approval Stamp

WELL PERMIT APPROVED
Dept. of Environmental Protection
Water Resources/Water Allocation
APR 07 1987

In compliance with R.S. 58:4A-14, application is made for a permit to drill a well as described above.

Date 3/24/87

Signature of Owner Authorized Agent: Jack Quinlan

COPIES: Water Allocation – White Health Dept. – Yellow Owner – Blue

WELPMT 011 0004

Form GWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 35 - 06403 - 0
Atlas Sheet Coordinates 35 : 03 : 6 24

OWNER IDENTIFICATION - Owner Buena Vista Township
Address Harding Hi-Way
City Buena State N.J. Zip Code 08310

WELL LOCATION - If not the same owner please give address. Owner's Well No. _____
Address N. Union Rd.
County Atlantic Municipality Buena Vista Twp Lot No. 2 A Block No. 182

WELL USE Monitoring Status Completed

WATER USE _____ Average _____ gals. daily Maximum _____ gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 4 / 5 / 88
Depths: Total 42.5 ft. Finished 42.5 ft.
Diameter: Top 8 in. Bottom 8 in.
Land Surface Elevation at well 110 ft. Elevation was determined using survey
Casing Height (stick-up) above land surface 24" ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		22.5	4	PVC
Casing 2				
Casing 3				
Screen 1	22.5	20	4	PVC .020
Screen 2				
Tail Piece				
Gravel Pack	22.5	20		#1
Grout	0	22.5		Bentonite
Grouting Method				

WELL FLOWS NATURALLY No gals. per min. at _____ ft. above the land surface.
Water rises to _____ ft. above the land surface.

RECORD OF TEST Test Date 4 / 5 / 88
Static water-level before pumping 23 ft. below land surface. Water level _____ ft. below land surface after _____ hrs. of pumping.
Water level was measured using tape Drawdown _____ ft.
Discharge rate measured using _____ Discharge Rate 10 gals. per min.
Well was pumped using air Specific Capacity _____ gals. per min. per ft. of drawdown
Observed affects on nearby wells _____
Water Quality (taste, odor, color, etc.) _____

PERMANENT PUMPING EQUIPMENT Installed by None Pump Type _____
Mfrs. Name _____ Model _____
CAPACITY: Pump delivers _____ GPM at _____ PSI pressure.
POWER: _____ HP at _____ RPM Power Source _____
DEPTHS: Pump _____ ft. Footplace _____ ft. Airline _____ ft.
FLOW METER: Model _____ installed on _____ in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor Quinlan Well Drilling
Address E. Landis Ave.
City E. Vineland State N.J. Zip Code 08360
Name of Driller Jack Quinlan License No. 962

Signature of Contractor Jack Quinlan Date 11 / 1 / 88

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Township of Buena Vista

Name of Facility: Buena Vista Township DPW

Location: Union Road, Buena Vista Township, NJ

Case Number(s): (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW- 1

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: **West** 074°55'11.73994" **Latitude:** **North** 39°29'34.54624"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 240499.19605 **East** 373622.83514

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.57

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

RTK GPS Observations utilizing KeyNetGPS Network

Significant observations and notes:

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE May 10, 2018 **DATE**

Howard A. Transue NJ License No. 33541
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

1425 Cantillon Blvd, Mays Landing, NJ 08330 Phone 609-625-7400
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Township of Buena Vista

Name of Facility: Buena Vista Township DPW

Location: Union Road, Buena Vista Township, NJ

Case Number(s): _____ **(UST #, ISRA #, Incident #, or EPA #)**

LAND SURVEYOR'S CERTIFICATION
Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW- 2

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: **West** 074°55'19.61571" **Latitude:** **North** 39°29'31.84013"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 240228.29848 **East** 373004.18546

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 103.85

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

RTK GPS Observations utilizing KeyNetGPS Network

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ May 10, 2018
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PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Township of Buena Vista

Name of Facility: Buena Vista Township DPW

Location: Union Road, Buena Vista Township, NJ

Case Number(s): _____ **(UST #, ISRA #, Incident #, or EPA #)**

LAND SURVEYOR'S CERTIFICATION
Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW- 3

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: **West** 074°55'19.36355" **Latitude:** **North** 39°29'34.92568"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 240540.37738 **East** 373025.41404

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 111.74

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

RTK GPS Observations utilizing KeyNetGPS Network

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ May 13, 2010
PROFESSIONAL LAND SURVEYOR'S SIGNATURE **DATE**

Howard A. Transue NJ License No. 33541
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

1425 Cantillon Blvd, Mays Landing, NJ 08330 Phone 609-625-7400
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Township of Buena Vista

Name of Facility: Buena Vista Township DPW

Location: Union Road, Buena Vista Township, NJ

Case Number(s): _____ **(UST #, ISRA #, Incident #, or EPA #)**

LAND SURVEYOR'S CERTIFICATION
Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW- 4

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: **West** 074°55'19.11833" **Latitude:** **North** 39°29'38.11296"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 240862.75054 **East** 373046.14725

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 113.02

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

RTK GPS Observations utilizing KeyNetGPS Network

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

_____ May 13, 2010
PROFESSIONAL LAND SURVEYOR'S SIGNATURE **DATE**

Howard A. Transue NJ License No. 33541
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

1425 Cantillon Blvd, Mays Landing, NJ 08330 Phone 609-625-7400
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

APPENDIX D

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE
Governor
KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

MEMORANDUM

December 14, 2015

TO: Robert Gallagher, Site Manager
Immediate Concern Unit

FROM: David Dibblee, ES3
Bureau of Environmental Measurements and Site Assessment

SUBJECT: Engagement for Post Road Ground Water Contamination
Post Rd
Buena Vista Twp, Atlantic County
Program Interest Number: 632263
Activity Number: PFR140001
Job Number: A8091390
E-CATs Activity Number: V39D
Sampling Date: December 9-10, 2015
Indoor Air Report

In accordance with Interdivisional Work request Number 4535 dated September 16, 2015, the Environmental Measurements Section conducted indoor air sampling at the above-noted site.

For this event 4 homes were sampled for indoor air and sub slab soil gas. At each location a 6 liter summa canister was deployed in the basement of the home and was retrieved 24 hours later. After retrieval of each 24 hour canister, a sub slab sample was collected using a 1 liter summa canister. Each sub slab sample was collected by installing a 3/8 inch Teflon lined tubing in a hole drilled through the concrete floor. The tubing was purged at each location using a Brailsford pump before opening the summa canister to collect the sample. After sampling the hole was sealed using Rockite concrete mix. An ambient air sample was collected at 4324 Post Road on the back patio (Turchi Residence).

The sample locations are summarized in the attached table. A map is also provided in the NJEMS record for this site.

Should you have any questions regarding this event please contact me at 530-3985.

Post Road Indoor Air Sampling Event
December 9th &10th, 2015
Buena Vist Twp, Atlantic County

Sample #	Address	Location
4325AB1	Burke Residence 4325 Post Road	6-liter, 24 hour canister placed on the short wall opposite the bar
4325SS1		1-liter sub slab collected in the unfinished bathroom in the basement
4324AB1	Turchi Residence 4324 Post Road	6-liter 24 hour canister placed on the TV stand on the office side of the basement
4324SS1		1-liter sub slab collected in the center of the basement near brick column
AA1		6-liter, 24 hour ambient canister placed on the rear patio
4321AB1	Doe Residence 4321 Post Road	6-liter, 24 hour canister placed on a table at the foot of the stairs near the chest freezer
4321SS1		1-liter sub slab collected behind the stairs, in front of the washer and dryer, center of room
4328AB1	PAFACOM House (vacant) 4328 Post Road	6-liter, 24 hour canister set on a folding ladder in the center of the room
4328SS1		1-liter sub slab collected in the center of the room

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE
Governor
Kim Guadagno
Lt Governor

BOB MARTIN
Commissioner

MEMORANDUM

TO: Robert Gallagher, Case Manager
Immediate Environmental Concern Unit
Bureau of Environmental Measurement & Site Assessment

THROUGH: Greg Toffoli, Section Chief
Joseph Sanguiliano
Office of Data Quality
Hazardous Site Science Element

FROM: Dorothy Lin
Office of Data Quality
Hazardous Site Science Element

SUBJECT: Data Validation Review of the ***9 air samples*** for the **Post Rd. GW Contamination, Buena Vista, Atlantic County (PI# 632263)** Site.

Samples Reviewed

Field ID	Lab ID	Summa ID	Collection Dates	Matrix
4324AB1	200-31141-1	3657	12/09-10/2015	AIR
4328AB1	200-31141-2	3521	12/09-10/2015	AIR
4321AB1	200-31141-3	5654	12/09-10/2015	AIR
4325AB1	200-31141-4	2858	12/09-10/2015	AIR
AA1	200-31141-5	2669	12/09-10/2015	AIR
4328SS1	200-31141-6	3598	12/10/2015	AIR
4325SS1	200-31141-7	4672	12/10/2015	AIR
4324SS1	200-31141-8	4960	12/10/2015	AIR
4321SS1	200-31141-9	8501	12/10/2015	AIR

The Office of Data Quality, Hazardous Site Science Element has reviewed the above mentioned air samples for Volatile Organics. Analyses were performed by TestAmerica-Burlington Laboratories according to USEPA Method TO-15 Method for volatile organics according to full regulatory deliverable requirements as specified in the Technical Requirements for Site Remediation, N.J.A.C. 7:26E. Please refer to the detailed data validation report for additional information. A Target Summary List is not provided. Please refer to the laboratory forms in the data package. Specific comments are provided below.

General Comments:
The Volatile Organics analyses were performed according to The Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, Compendium Method TO-15.

Volatile Organics:
The data are acceptable with the comments noted below.
Sample 200-31141-4 was analyzed undiluted and diluted because the results for acetone and isopropyl alcohol (IPA) were above the highest calibration standard. The results for acetone and IPA are reported from the diluted analysis. All other results are reported from the undiluted analysis.

Positive results for methyl ethyl ketone (MEK) in all samples are quantitatively qualified because the %RSD in the initial calibration was above the QC limit of 30%.

The non-detected results for bromoform are quantitatively qualified because the laboratory control limit was below the QC limits of 70-130%.

If there are any questions concerning this review, please contact this office at 633-0752.

c. Dave Springer, BEMSA
Heather Swartz, OCR

Project name: A8091390

Laboratory Name: TAL-Burlington
Laboratory City: South Burlington,VT

TARGET/NON TARGET ANALYTES-
AIR RESULTS

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
Field ID Num: 4321AB1; Lab ID Num: 200-31141-3; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Acetone	67-64-1	58.078	7.7		18			
Bromoform	75-25-2	252.75	0.20	U *	2			
Chloromethane	74-87-3	50.49	0.74		2			
Carbon disulfide	75-15-0	76.14	0.83		3			
Isopropanol	67-63-0	60.1	36		87			
Methyl ethyl ketone	78-93-3	72.11	1.0		3			
Toluene	108-88-3	92.14	0.54		2			
Trichlorofluoromethane	75-69-4	137.37	0.22		1			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Unknown			8.1	J		5.47		
Silanol, trimethyl-	1066-40-6		1.8	J N		9.47		
2-Heptanone	110-43-0		1.3	J N		19.71		
Field ID Num: 4321SS1; Lab ID Num: 200-31141-9; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Bromoform	75-25-2	252.75	2.0	U *	21			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Unknown alkane			12	J		15.87		
Total Alkanes	STL00989		12	J				
Field ID Num: 4324AB1; Lab ID Num: 200-31141-1; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Acetone	67-64-1	58.078	11		27			
Benzene	71-43-2	78.108	0.30		1			
Bromoform	75-25-2	252.75	0.20	U *	2			
Chloromethane	74-87-3	50.49	0.65		1			
n-Hexane	110-54-3	86.172	0.68		2			
Isopropanol	67-63-0	60.1	15		36			
Toluene	108-88-3	92.14	0.75		3			
Trichlorofluoromethane	75-69-4	137.37	0.20		1			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Unknown alkane			3.0	J		3.08		
Unknown alkane			6.8	J		3.38		
Unknown alkane			2.5	J		4.48		
Unknown alkane			1.7	J		5.04		
Unknown			8.8	J		5.47		
D-Limonene	5989-27-5		30	J N		22.2		
Unknown alkane			1.0	J		27.1		
Total Alkanes	STL00989		15	J				
Field ID Num: 4324SS1; Lab ID Num: 200-31141-8; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Bromoform	75-25-2	252.75	2.0	U *	21			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Field ID Num: 4325AB1; Lab ID Num: 200-31141-4; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Acetone	67-64-1	58.078	150	E	370			
Benzene	71-43-2	78.108	3.7		12			
Bromoform	75-25-2	252.75	0.20	U *	2			
Chloromethane	74-87-3	50.49	0.72		1			
Cyclohexane	110-82-7	84.16	0.66		2			
Dichlorodifluoromethane	75-71-8	120.91	0.50		2			
1,2-Dichloroethane	107-06-2	98.96	0.33		1			
Ethylbenzene	100-41-4	106.17	3.9		17			
4-Ethyltoluene	622-96-8	120.2	0.89		4			
n-Heptane	142-82-5	100.21	6.4		26			
n-Hexane	110-54-3	86.172	6.7		24			
Isopropanol	67-63-0	60.1	64	E	160			
Methyl ethyl ketone	78-93-3	72.11	7.1		21			
Methyl isobutyl ketone	108-10-1	100.16	0.50		2			
Styrene	100-42-5	104.15	0.55		2			

TARGET/NON TARGET ANALYTES-
AIR RESULTS

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
Tetrahydrofuran	109-99-9	72.11	5.4		16			
Toluene	108-88-3	92.14	25		95			
Trichlorofluoromethane	75-69-4	137.37	0.65		4			
1,2,4-Trimethylbenzene	95-63-6	120.2	3.1		15			
1,3,5-Trimethylbenzene	108-67-8	120.2	0.78		4			
2,2,4-Trimethylpentane	540-84-1	114.23	14		64			
Xylenes (m&p)	179601-23-	106.17	16		70			
Xylenes (o)	95-47-6	106.17	5.8		25			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Unknown			4.2	J		2.75		
Unknown alkane			3.1	J		2.85		
Unknown alkane			12	J		3.08		
Unknown alkane			11	J		3.38		
Unknown alkane			12	J		4.48		
Unknown alkane			4.3	J		5.04		
Unknown			28	J		5.5		
Unknown alkane			2.7	J		6.96		
Unknown alkane			2.3	J		10.32		
Unknown alkane			2.1	J		12.68		
Unknown alkane			3.0	J		13.54		
Unknown alkane			2.4	J		13.79		
Unknown			2.2	J		16.79		
(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2	7785-70-8		11	J N		20.08		
.beta.-Pinene	127-91-3		1.4	J N		21.29		
D-Limonene	5989-27-5		4.2	J N		22.2		
Unknown			1.2	J		23.39		
Unknown alkane			1.1	J		23.78		
Total Alkanes	STL00989		56	J				
Field ID Num: 4325AB1DL; Lab ID Num: 200-31141-4; Sampling Date: 12/10/2015; Analysis Date: 12/16/2015								
TO15			*ppbv*		*ug/m3*			
Acetone	67-64-1	58.078	130	D	320			
Benzene	71-43-2	78.108	3.2	D	10			
Ethylbenzene	100-41-4	106.17	3.8	D	17			
n-Heptane	142-82-5	100.21	5.8	D	24			
n-Hexane	110-54-3	86.172	5.3	D	19			
Isopropanol	67-63-0	60.1	47	D	120			
Methyl ethyl ketone	78-93-3	72.11	6.9	D	20			
Toluene	108-88-3	92.14	24	D	92			
1,2,4-Trimethylbenzene	95-63-6	120.2	3.2	D	15			
2,2,4-Trimethylpentane	540-84-1	114.23	12	D	55			
Xylenes (m&p)	179601-23-	106.17	15	D	66			
Xylenes (o)	95-47-6	106.17	5.5	D	24			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Unknown alkane			38	J D		3.5		
Unknown alkane			15	J D		3.75		
Unknown alkane			21	J D		4.86		
Unknown			62	J D		5.77		
(1S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2	7785-26-4		13	J N D		16.44		
Total Alkanes	STL00989		74	J D				
Field ID Num: 4325SS1; Lab ID Num: 200-31141-7; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Acetone	67-64-1	58.078	270		630			
Benzene	71-43-2	78.108	11		35			
Bromoform	75-25-2	252.75	2.0	U *	21			
n-Hexane	110-54-3	86.172	2.0		7			
Isopropanol	67-63-0	60.1	200		490			
Methyl ethyl ketone	78-93-3	72.11	8.5		25			
Toluene	108-88-3	92.14	3.1		12			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Unknown			73	J		5.45		

TARGET/NON TARGET ANALYTES-
AIR RESULTS

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Foot-notes
Field ID Num: 4328AB1; Lab ID Num: 200-31141-2; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Bromoform	75-25-2	252.75	0.20	U *	2			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Field ID Num: 4328SS1; Lab ID Num: 200-31141-6; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Acetone	67-64-1	58.078	72		170			
Bromoform	75-25-2	252.75	2.0	U *	21			
n-Hexane	110-54-3	86.172	3.6		13			
Volatile Tentatively Identified Compounds (up to 30 compounds)								
Field ID Num: AA1; Lab ID Num: 200-31141-5; Sampling Date: 12/10/2015; Analysis Date: 12/14/2015								
TO15			*ppbv*		*ug/m3*			
Bromoform	75-25-2	252.75	0.20	U *	2			
Chloromethane	74-87-3	50.49	0.59		1			
Toluene	108-88-3	92.14	0.23		0.9			
Volatile Tentatively Identified Compounds (up to 30 compounds)								

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

Publicly Funded Response Element
Bureau of Environmental Measurements and
Site Assessment
P.O. Box 420
Mail Code 380-01
Trenton, New Jersey 08625

BOB MARTIN
Commissioner

May 17, 2016

Paul & Lola Speziali
4320 Post Road
Vineland, NJ 08360

Re: Sub-Slab Soil Gas and Indoor Air Sampling at:
4320 Post Road
Buena Vista Township (Vineland), Atlantic County
Block 7101, Lot 33
Sampling Date: March 29-30, 2016

For: Post Road Ground Water Contamination Site
Buena Vista Township, Atlantic County
NJDEP Preferred Identification (PI) #: 632263

Dear Mr. & Mrs. Speziali:

The New Jersey Department of Environmental Protection (NJDEP) is writing to provide you with the analytical results from sub-slab soil gas and indoor air samples collected at your property on March 29-30, 2016. The samples were collected as part of a vapor intrusion investigation due to the Post Road Ground Water Contamination site.

The samples were analyzed for volatile organic compounds according to USEPA Method TO-15. Although the laboratory routinely analyzes for an extensive list of potential volatile organic compounds, the primary contaminants of concern associated with the Post Road Ground Water Contamination site that could affect indoor air quality within your building are vinyl chloride, trichloroethene (TCE), and cis 1,2 dichloroethene (DCE). Summarized below and in the attached tables are the analytical results for the sub-slab soil gas and indoor air samples collected from your building. The NJDEP Residential Indoor Air Screening Levels referenced in the attached indoor air sampling results table are based upon typical exposure factors and assume the occupants of the building are exposed to the indoor air over a 25 to 30 year period.

RESULTS:

The contaminants of concern were not detected in the sub-slab soil gas sample collected from your property, nor were they detected in the indoor air sample collected from your basement. These findings indicate vapor intrusion is not occurring at your home and therefore no additional vapor intrusion testing is required at this time. Please note, however, that remedial investigations at the Post Road Ground Water Contamination site are ongoing. If future findings indicate contamination from this site could impact your property, additional sampling may be necessary and you will be contacted at that time.

Please note that pursuant to New Jersey's Open Public Records Act (OPRA), all building surveys and vapor intrusion sampling results obtained by NJDEP during this investigation become part of the public record for the Post Road Ground Water Contamination site. We are obligated to make this information available to any interested party that requests access to it through our Office of Record Access.

If you have any questions about your sampling results or NJDEP's activities at this site, please contact Heather Swartz, Community Relations Coordinator in NJDEP's Office of Community Relations at (609) 984-7135 or Heather.Swartz@dep.nj.gov . For more information about vapor intrusion, please refer to our web page at www.nj.gov/dep/srp/guidance/vaporintrusion/indoor_air.htm.

Sincerely,

William Lowry, Chief
Bureau of Environmental Measurement & Site Assessment

Enclosures: Indoor Air and Soil Gas Sampling Results Summary Tables

c: Lisa A. Tilton, Township Clerk/Assistant Municipal Administrator, Buena Vista Township Municipal Building, 890 Harding Highway, PO Box 605, Buena, NJ 08310
Patricia Diamond, M.P.H., Atlantic Co. Dept. of Human Services, 235 Dolphin Avenue, Northfield, NJ 08225
Keith Phillips, Atlantic County Division of Public Health, 201 South Shore Road, Suite 339 - Still Water Building, Northfield, NJ 08225
Robert Gallagher, NJDEP Case Manager
Heather Swartz, NJDEP Community Relations Coordinator

Residential Indoor Air Sampling Results Summary Table

Post Road Ground Water Contamination Site

NJDEP Program Interest (PI) # 632263

Speziali Residence 4320 Post Road Buena Vista Township Atlantic County Block 7101; Lot 33	**NJDEP Residential Indoor Air Screening Levels**	**Indoor Air Sampling Results (Basement) Sample ID # 4320AB1**
Chemical	**$\mu g/m^3$**	**March 29-30, 2016**
Acetone	32,000	19
Chloromethane	94	1
Methyl ethyl ketone	5,200	2
Trichlorofluoromethane	730	3
Xylenes	100	3

Notes:

Only compounds with screening levels that are detected above the analytical reporting limits are listed in this table.

All results are in micrograms per cubic meter ($\mu g/m^3$).

Residential Soil Gas Sampling Results Summary Table

Post Road Ground Water Contamination Site

NJDEP Program Interest (PI) # 632263

Speziali Residence 4320 Post Road Buena Vista Township Atlantic County Block 7101; Lot 33	NJDEP Residential Soil Gas Screening Levels	Soil Gas Sampling Results (Basement) Sample ID # 4320SS1
Chemical	**$\mu g/m^3$**	**March 30, 2016**
Benzene	16	14

Notes:

Only compounds with screening levels that are detected above the analytical reporting limits are listed in this table.

All results are in micrograms per cubic meter ($\mu g/m^3$).

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

Publicly Funded Response Element
Bureau of Environmental Measurements and
Site Assessment
P.O. Box 420
Mail Code 380-01
Trenton, New Jersey 08625

BOB MARTIN
Commissioner

May 17, 2016

Richard Burke Sr.
4325 Post Road
Vineland, NJ 08360

Re: Sub-Slab Soil Gas and Indoor Air Sampling at:
4325 Post Road
Buena Vista Township (Vineland), Atlantic County
Block 7001, Lot 5.01
Sampling Date: March 29-30, 2016

For: Post Road Ground Water Contamination Site
Buena Vista Township, Atlantic County
NJDEP Preferred Identification (PI) #: 632263

Dear Mr. Burke:

The New Jersey Department of Environmental Protection (NJDEP) is writing to provide you with the analytical results from sub-slab soil gas and indoor air samples collected at your property on March 29-30, 2016. The samples were collected as part of a vapor intrusion investigation due to the Post Road Ground Water Contamination site.

The sampling was conducted to follow up on vapor intrusion testing NJDEP performed at your home in December of 2015, when elevated concentrations of benzene was detected in the sub-slab soil gas and indoor air samples. This round of vapor intrusion testing was conducted to help determine whether the benzene vapors were due to a background source inside your home and not related to the ground water contamination plume.

The indoor air and sub-slab soil gas samples collected from your property on March 29-30, 2016 were analyzed for volatile organic compounds according to USEPA Method TO-15. Although the laboratory routinely analyzes for an extensive list of potential volatile organic compounds, the primary contaminants of concern associated with the Post Road Ground Water Contamination site that could affect indoor air quality within your building are vinyl chloride, trichloroethene (TCE), and cis 1,2 dichloroethene (DCE).

Summarized below and in the attached table are the analytical results for the indoor air sample collected from your building. The NJDEP Residential Indoor Air Screening Levels referenced in the attached indoor air sampling results table are based upon typical exposure factors and assume the occupants of the building are exposed to the indoor air over a 25 to 30 year period. Any sampling result that exceeded an applicable NJDEP screening level is presented in bold type and shaded. (Please note that a soil gas sampling results table is not included with this letter because no volatile organic compounds were detected in the sub-slab soil gas sample collected at your property on March 30, 2016.)

RESULTS:

None of the contaminants of concern for the Post Road Ground Water Contamination site were detected in the sub-slab soil gas sample collected from your property, nor were any of the contaminants of concern detected in the indoor air sample collected from your basement. However, benzene, ethylbenzene and tetrachloroethene (also known as perchloroethylene, or PCE) were detected in the indoor air sample at concentrations above NJDEP's Residential Indoor Air Screening Levels. These contaminants are not associated with the Post Road Ground Water Contamination site and were not detected in the sub-slab soil gas sample collected from your property on March 30, 2016.

Indoor air contamination that is not due to the site is referred to as "background contamination." Background indoor air contamination can be due to vapors associated with cigarette smoke, dry cleaned clothing, gasoline-powered machinery and certain construction materials and cleaning products, among other things. For more information, please refer to the attached list of common household sources of background indoor air contamination. An Indoor Air Building Survey/Sampling Form was completed for your property on the day of the sampling to identify possible sources of background contamination. If you would like a copy, please contact the individual identified below.

These findings indicate that the elevated concentrations of benzene vapors detected in the sub-slab soil gas and indoor air during the December 2016 vapor intrusion sampling event were likely due to one or more background sources inside your home. Consequently, NJDEP has concluded that vapor intrusion is not occurring at your home and therefore no additional vapor intrusion testing is required at this time. Please note, however, that remedial investigations at the Post Road Ground Water Contamination site are ongoing. If future findings indicate contamination from this site could impact your property, additional sampling may be necessary and you will be contacted at that time.

The New Jersey Department of Health (NJDOH) is responsible for evaluating indoor air quality issues. Therefore, if you have questions regarding the quality of the indoor air and/or require information about potential health effects, please contact NJDOH's Indoor Environments Program at (609) 826-4920.

Please note that pursuant to New Jersey's Open Public Records Act (OPRA), all building surveys and vapor intrusion sampling results obtained by NJDEP during this investigation become part of the public record for the Post Road Ground Water Contamination site. We are obligated to make this information available to any interested party that requests access to it through our Office of Record Access.

If you have any questions about your sampling results or NJDEP's activities at this site, please contact Heather Swartz, Community Relations Coordinator in NJDEP's Office of Community Relations at (609) 984-7135 or Heather.Swartz@dep.nj.gov . For more information about vapor intrusion, please refer to our web page at www.nj.gov/dep/srp/guidance/vaporintrusion/indoor_air.htm.

Sincerely,

William Lowry, Chief
Bureau of Environmental Measurement & Site Assessment

Enclosures: Indoor Air Sampling Results Summary Table
Common Background Indoor Air Sources

c: Lisa A. Tilton, Township Clerk/Assistant Municipal Administrator, Buena Vista Township Municipal Building, 890 Harding Highway, PO Box 605, Buena, NJ 08310
Patricia Diamond, M.P.H., Atlantic Co. Dept. of Human Services, 235 Dolphin Avenue, Northfield, NJ 08225
Keith Phillips, Atlantic County Division of Public Health, 201 South Shore Road, Suite 339 - Still Water Building, Northfield, NJ 08225
Robert Gallagher, NJDEP Case Manager
Heather Swartz, NJDEP Community Relations Coordinator

Residential Indoor Air Sampling Results Summary Table

Post Road Ground Water Contamination Site

NJDEP Program Interest (PI) # 632263

Burke Residence 4325 Post Road Buena Vista Township Atlantic County Block 7001; Lot 5.01	NJDEP Residential Indoor Air Screening Levels	Indoor Air Sampling Results (Basement) Sample ID # 4325AB1
Chemical	µg/m^3	March 29-30, 2016
Acetone	32,000	170 D
Benzene	2	**14**
Chloromethane	94	2
Cyclohexane	6,300	3
Dichlorodifluoromethane	100	3
1,2 Dichloroethane	2	1
Ethylbenzene	2	**15**
4-Ethyltoluene	n/a	5
n-Heptane	n/a	10
n-Hexane	730	25
Isopropanol	n/a	61
Methyl ethyl ketone	5,200	22
Methyl isobutyl ketone	3,100	3
Styrene	1,000	2
Tetrachloroethene (PCE)	9	**15**
Tetrahydrofuran	n/a	21
Toluene	5,200	97
Trichlorofluoromethane	730	3
1,2,4 Trimethylbenzene	n/a	16
1,3,5 Trimethylbenzene	n/a	4
2,2,4 Trimethylpentane	n/a	31
Xylenes (total)	100	83

Notes:

Only compounds with screening levels that are detected above the analytical reporting limits are listed in this table.

All results are in micrograms per cubic meter (µg/m^3).

n/a - A screening level is currently not available for this chemical.

D- Diluted sample

ND - Not Detected

Bolded and shaded result indicates exceedance of applicable Indoor Air Screening Level