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February 16, 2016
File No. 02214708.00

Ms. Jackie Drummond, Hydrogeologist
North Carolina Department of Environment and Natural Resources
Division of Waste Management, Solid Waste Section
2090 US Highway 70
Swannanoa, North Carolina 28778

Subject: **Construction and Demolition Debris Landfill, Pitt County, NC**
Facility Permit Number 74-07 Phase 1 and Phase 2
Water Quality Monitoring Report
November 2015 Semiannual Sampling Event

Dear Ms. Drummond:

On behalf of C&D Landfill, Inc., SCS Engineers, PC is submitting the attached Water Quality Monitoring Report documenting November 2015 Semiannual Sampling Event for Phase 1 and Phase 2 Construction and Demolition Debris Landfill (C&D Landfill), Facility Permit Number 74-07. The November 2015 monitoring event is the 2nd of the requested semiannual groundwater monitoring events for year 2015. In addition to the report, the signed Environmental Monitoring Reporting Form and the electronic data deliverable (EDD) are being submitted. This groundwater and surface water sampling event was conducted on November 10, 2015. The report provides details pertaining to the sampling event including field activities, laboratory analysis, water quality findings and conclusions. Historical groundwater and surface water results are also included in the report.

In summary, the results of the surface water monitoring event indicate conditions consistent with historic field and analytical data. The results of the groundwater monitoring event indicate ongoing groundwater impact at the assessment monitoring wells MW-3S and MW-3A with benzene detections. Originally assessment monitoring at wells MW-3S and MW-8 was triggered by the detection of benzene. Vinyl chloride was present at concentration above 2L Standard in well MW-6, Phase 1 detection well, for the first time. However neither benzene nor vinyl chloride were detected in wells MW-8 and MW-12S during this monitoring event. There is no indication of any risk to the public at this time. The next water quality monitoring event at the C&D Landfill is scheduled for May 2016.

If you have any questions or need additional information, please do not hesitate to contact David Garrett at 919-418-4375 (dgarrett@scsengineers.com).

Sincerely,

David Garrett, P.G., P.E.
Project Manager
SCS ENGINEERS, PC

Marta A. VanDussen, E.I.
Project Professional
SCS ENGINEERS, PC

cc: Wayne Bell, C&D Landfill, Inc.

Enclosures: Water Quality Monitoring Report November 2015 Semiannual Sampling Event
Environmental Monitoring Reporting Form (EMR Form)
Electronic Data Deliverable (EDD)

SCS ENGINEERS

WATER QUALITY MONITORING REPORT
NOVEMBER 2015
SEMIANNUAL SAMPLING EVENT

CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL, PITT COUNTY
FACILITY PERMIT NO. 74-07

Prepared for:

C&D Landfill, Inc.
802 Recycling Lane
Greenville, North Carolina 27834
(252) 757-0023

Prepared by:

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Date: February 16, 2016
File No.: 02214708.00 Task 1

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WATER QUALITY MONITORING REPORT
NOVEMBER 2015
SEMIANNUAL SAMPLING EVENT

CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL, PITT COUNTY
FACILITY PERMIT NO. 74-07

Presented To:

C&D Landfill, Inc.
802 Recycling Lane
Greenville, North Carolina 27834
(252) 757-0023

Presented From:

SCS ENGINEERS, PC
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Attachment 1 – Environment 1, Incorporated Laboratory Field and Analytical Results Report
Attachment 2 – Environmental Monitoring Reporting Form and
Electronic Data Deliverable (EDD; Electronic File Only)

SCS Engineers, PC (SCS) is submitting this Water Quality Monitoring Report for the Construction and Demolition Debris Landfill, located in Pitt County, North Carolina on behalf of the C&D Landfill, Inc. This report provides background information, description of field activities, data, summary and analysis of the laboratory analytical results from the groundwater and surface water monitoring sampling event performed in November 2015.

1 INTRODUCTION

C&D Landfill, Inc. operates the Construction and Demolition Debris Landfill (C&D Landfill) Phase 1 and Phase 2 located at 802 Recycling Lane, Greenville, Pitt County, North Carolina. The location of the landfill is shown on **Figure 1.** This C&D Landfill Phase 1 became operational in 2001 and Phase 2 became operational in 2009. The baseline monitoring was conducted in August 2009 at the Phase 2 of the C&D Landfill. Based on review of previously prepared documentation, groundwater monitoring has been performed at the permitted landfill since May 2001 for Phase 1 and since August 2009 for Phase 2.

State and federal regulations applicable to landfills are enforced by the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management (DWM), Solid Waste Section (SWS). The C&D Landfill (Phase 1 and Phase 2) is permitted by the NCDEQ DWM under Permit No. 74-07, which requires semiannual monitoring of groundwater and surface water quality. This monitoring event is the second (2nd) semiannual monitoring event for year 2015. This report provides an evaluation of surface water and groundwater quality for the C&D Landfill Phase 1 and Phase 2.

Currently, the monitoring program network at the landfill consists of twelve (12) groundwater monitoring wells within Phase 1, seven (7) groundwater monitoring wells within Phase 2, and four (4) on-site surface water sampling locations. There are two monitoring programs on-going at the site, the assessment monitoring program related to monitoring wells MW-3S, MW-3A, MW-8, and MW-12S, and detection monitoring related to the remainder of the monitoring wells.

Phases 1 and 2 are separated by a man-made (channelized) drainage feature that may have once been a natural stream that originates onsite. This drainage feature predates either phase of the landfill. Within Phase 1 area there is one up gradient, background well designated as MW-1S, and eight (8) down gradient compliance wells being designated as MW-2S, MW-3S, MW-4, MW-5, MW-6, MW-7, MW-3A, and MW-8, as well as three deeper wells MW-1D, MW-2D, and MW-3D. Within Phase 2 area there is one up gradient, background well designated as MW-9A, and six (6) down gradient compliance wells being designated as MW-10, MW-11, MW-12S, MW-13, MW-14S, and one deeper well MW-14D. Monitoring well MW-12S is located across and downgradient of the man-made drainage feature from Phase 1 well MW-8.

The surface water sample locations are designated as SW-1, SW-2, SW-3, and SW-4. SW-1 is a background surface water location. SW-1 and SW-3 monitor a natural stream on the south side of Phase 1 that originates offsite to the east, with SW-1 as background. SW-2 and SW-4 monitor a channelized stream on the west side of Phase 2 that originates offsite to the north, with SW-3 as background. SW-2 is located below the confluence of the interstitial man-made drainage feature and the channelized stream on the west side of Phase 2.

The locations of the monitoring wells and surface water points are showed on **Figure 1**.

The four deeper wells mentioned above, MW-1D, MW-2D, and MW-3D (Phase 1) and MW-14D (Phase 2) are to be sampled annually during every spring monitoring event.

2 FIELD ACTIVITIES

On November 10, 2015 Environment 1, Incorporated personnel collected groundwater samples from fifteen (15) groundwater monitoring wells and four (4) surface water sampling locations at the C&D Landfill for laboratory analysis of constituents listed in Appendix I of the 40 Code of Federal Regulations (CFR) Part 258 (Constituents for Detection Monitoring), Appendix II of the CFR Part 258 (Constituents for Assessment Monitoring), tetrahydrofuran, cyanide, and sulfide. The four deeper wells were not sampled during this monitoring event, because they are set up to be sampled during spring monitoring events only. The groundwater and surface water samples were collected and handled in accordance with the sampling protocols included in the *Sampling and Analysis Plan* dated May 2008 and *Groundwater Assessment Work Plan* dated June 2009, both prepared for the site by David Garrett & Associates, as well as the SWS Guidelines for Groundwater, Soil, and Surface Water Sampling.

Groundwater was purged and samples were collected from the monitoring wells using bailing sampling procedures. Total well depth, condition of the casing, and the groundwater recharge rate were used to determine the purging and sample collection method employed at each monitoring well. Prior to groundwater sampling, each monitoring well was purged of a minimum of three well volumes of water. During purging, measurements were taken in the field of conductivity, pH, temperature, water levels, and turbidity. Measured field parameters and additional observations pertaining to the C&D Landfill sampling locations are provided in the laboratory analytical report, which is included in **Attachment 1**. All groundwater samples were placed into laboratory-supplied sample bottles by a technician wearing a new pair of nitrile gloves.

Surface water samples were collected into sample containers by direct submersion in the creek and/or tributary. One round of surface water field parameters consisting of conductivity, pH, temperature, and turbidity, was measured and recorded at each sampling location prior to collecting the sample. Surface water samples were placed into laboratory-supplied sample containers by a technician wearing a new pair of nitrile gloves. All reusable sampling equipment was properly decontaminated between sampling locations. Disposable sampling equipment and material was discarded after each use.

Following collection, each groundwater and surface water sample was immediately placed on ice in a sample cooler for delivery to Environment 1, a North Carolina certified laboratory located in Greenville, North Carolina. Proper chain-of-custody documentation practices were followed during collection and transportation of each sample; the documentation is included in **Attachment 1** of this report. Chain-of-custody provides details of the laboratory analyses requested and performed on the samples. The laboratory analytical report is provided in the **Attachment 1** also.

3 GROUNDWATER LEVELS AND FLOW

Groundwater levels were gauged in the monitoring wells on November 10, 2015. Depths to groundwater were measured using an electronic water level meter that was thoroughly decontaminated between wells. Depth-to-water measurements were taken after the wells were opened for a sufficient period of time to allow water levels to equilibrate with atmospheric pressure. Water level data and groundwater elevation data are summarized on **Table 1**. The depth to groundwater across the site measured relative to the top of the polyvinyl chloride (PVC) casing ranged from 2.43 feet (MW-11; Phase 2) to 10.94 feet (MW-3S; Phase 1), consistent with site surface topography.

Based on the water level data collected during this monitoring event, a Groundwater Surface Contour Map was prepared and is presented as **Figure 1**. Groundwater levels during this monitoring event were slightly higher than the May 2015 levels, due to the wetter weather conditions. The pattern of the water-table contours indicates that the horizontal component of shallow groundwater flow at the site is generally to the south and southwest, which is consistent with the site surface topography and drainage features. In general, the groundwater flow direction is primarily towards the southwestern property boundary and continues to flow in the direction of areas where there are no identified groundwater users, and rather flat gradients extending through agricultural and wooded marshy land leading to the Tar River. Much of the downgradient area is beneath the 100-year flood level and is not anticipated to undergo development or groundwater use in the near future.

The estimated values for hydraulic conductivity and porosity, as well as the calculated hydraulic gradient and groundwater flow velocity are presented in **Table 1**. The hydraulic gradient of the water table that is a horizontal gradient, calculated based on data from **Figure 1**, varies from approximately 0.001 to 0.014 at the site. The corresponding calculated flow velocities fluctuate between 0.002 to 0.107 feet per day. Please note that for all the monitoring wells, the estimated value for hydraulic conductivity comes from individual well aquifer tests performed by EFM, Inc. and effective porosity in the shallow aquifer are values approximated based on the grain-size data from lab testing of site soils for Phase 2 *Design Hydrogeologic Report*.

4 WATER QUALITY FINDINGS

Concentrations of detected constituents in groundwater samples were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the SWS and NCDEQ rule 15A NCAC 02L .0202 Groundwater Quality Standards (2L). Concentrations of detected constituents in surface water samples were compared to analyte-specific SWSLs and the 15A NCAC 2B.0211 surface water quality standards (2B) established for class C waters. If the reported concentration is less than the SWSL, the analytical result is qualified by the laboratory and SCS as estimated per the SWS requirement, and is flagged with a "J" qualifier.

Table 2 presents summary of detected constituents only, in groundwater. **Table 3** presents summary of detected constituents only, in surface water. In both tables, constituent analytical results that exceed their associated 2L or 2B standard, where applicable, are shaded. **Table 4** presents summary of historically detected constituents only, in the groundwater and/ or surface water samples collected at the C&D Landfill.

A hard copy of the laboratory report from Environment 1, Incorporated with a copy of the chain-of-custody form is included in **Attachment 1**. All laboratory analytical results and field parameter data for groundwater and surface water are included in an electronic data deliverable (EDD) spreadsheet format file specified by the SWS (available as electronic file only).

4.1 GROUNDWATER ANALYTICAL RESULTS

The summary of constituents detected in the groundwater during the November 2015 semiannual water quality monitoring event is provided in the sections below.

4.1.1 VOLATILE ORGANIC COMPOUNDS (VOCS)

Benzene, 2-butanone, carbon disulfide, ethylbenzene, styrene, tetrahydrofuran, toluene, and vinyl chloride were detected in one or more of the monitoring wells associated with Phase 1 during this monitoring event. Benzene was detected at concentration above the applicable SWSL and 2L standard in the two assessment wells MW-3S and MW-3A. Vinyl chloride was reported at concentration above the 2L standard in the monitoring well MW-6.

Tetrahydrofuran was detected in two monitoring wells associated with Phase 2 during this monitoring event.

No other VOCs were reported above their respective compliance limits in the groundwater samples collected from Phase 1 and Phase 2 monitoring wells. All detections are summarized on **Table 2**.

4.1.2 SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS) AND HERBICIDES

Appendix II SVOCs (per 40 CFR 258) and herbicides were not detected in the groundwater samples collected from Phase 1 and Phase 2 assessment monitoring wells during November 2015 monitoring event.

4.1.3 METALS

Sixteen (16) metals were detected in one or more of the monitoring wells associated with Phase 1 during November 2015 monitoring event. Out of the sixteen detected metals, arsenic, barium, cobalt, and selenium were found at concentrations equal to or above the applicable SWSLs in one or more of the collected groundwater samples. Arsenic, cobalt, and vanadium were found at concentrations in excess of their applicable 2L standards.

Arsenic was detected in well MW-3S at a concentration above its 2L standard. Cobalt was detected above its respective 2L standard in wells MW-3S, MW-3A, MW-4, MW-5, MW-6, MW-7, and MW-8. Vanadium was also present at concentrations in excess of established 2L standard for this metal in all Phase 1 monitoring wells, including the background well MW-1S. Except for vanadium, no other detected metals were present at concentrations above compliance limits in the background well MW-1S, but ALL these metals have been detected in the background well MW-1S.

Sixteen (16) metals were detected in one or more of the monitoring wells associated with Phase 2 during this monitoring event. Out of sixteen detected metals, barium, cadmium, lead, vanadium, and zinc, were found in excess or equal to the applicable SWSLs. Cobalt and vanadium were found at concentrations in excess of their applicable 2L standards.

Cobalt was found at concentration above the respective 2L standard in MW-14S (detection well). Vanadium was present in the monitoring wells MW-10, MW-12S, MW-13, and MW-14S at concentrations above its 2L standard, including the background well MW-9A. The well MW-12S is located across the shallow drainage feature from MW-8 (Phase 1 well). Cobalt detected in the groundwater sample collected from the background well MW-9A was reported at concentration below 2L standard.

No other metals were reported above their respective compliance limits in the groundwater samples collected from Phase 1 and Phase 2 monitoring wells. All detections are summarized on **Table 2**.

4.1.4 INORGANIC PARAMETERS

Neither cyanide, nor sulfide were detected in the groundwater samples collected from either Phase 1 or Phase 2 assessment wells.

4.1.5 FIELD PARAMETERS

The pH readings measured in Phase 1 monitoring wells ranged between 5.8 (MW-2S) Standard Units (SU) to 6.9 SU (MW-7) and for wells MW-1S, MW-2S, MW-3A, MW-4, and MW-8 were outside the 2L standard pH range of 6.5 to 8.5 SU specified in the 15A NCAC 02L .0202[c] (**Table 2**). The pH readings measured in Phase 2 monitoring wells ranged between 5.6 SU (MW-10) to 7.2 SU (MW-9A) and for all wells, with the exception of well MW-9A, were outside the 2L standard pH range. In overall, values of pH appear to be within a normal range at all locations.

Turbidity values at the time of sampling all monitoring wells ranged from 1.30 (MW-11; Phase 2) to 393 (MW-14S; Phase 2) nephelometric turbidity units (NTUs).

Specific conductivity values ranged between 138 (MW-14S; Phase 2) and 3,010 (MW-3S; Phase 1) microsiemens per centimeter (µS/cm).

4.2 SURFACE WATER ANALYTICAL RESULTS

The summary of constituents detected in the surface water during the November 2015 semiannual water quality monitoring event is provided in the sections below.

4.2.1 VOCS

VOCs were not reported for the collected surface water samples. **Table 3** and analysis report in Attachment 1 provide further details.

4.2.2 METALS

Fifteen (15) metals were detected in one or more surface water samples. None of the detected metals were present at concentrations above the applicable SWSLs and/ or 2B surface water quality standards for these constituents (**Table 3**).

4.2.3 FIELD PARAMETERS

The pH readings measured in all surface water samples ranged between 6.4 to 6.8 SU and were within the 2B surface water quality standard pH range of 6.0 to 9.0 SU specified in the 15A NCAC 2B (**Table 3**).

Turbidity values at the time of sampling the surface water samples ranged from 9.52 (SW-1) to 27.4 (SW-2) NTUs.

Specific conductivity values ranged between 127 (SW-4) and 292 (SW-1) µS/cm.

5 SUMMARY

The results of the November 2015 groundwater and surface water quality monitoring event performed at the C&D Landfill indicate that the overall water quality is steady and consistent with the results reported during previous semiannual sampling events. The results are summarized in more detail in the sections below.

5.1 VOCS DETECTION SUMMARY

During the November 2015 monitoring event benzene and vinyl chloride were present at concentrations in excess of their SWSL and 2L Standards. In addition, 2-butanone, carbon disulfide, ethylbenzene, styrene, tetrahydrofuran, and toluene were reported in one or more of the monitoring wells at concentrations above MDL, however below the applicable SWSLs and 2L Standards.

Benzene was found in MW-3S and MW-3A, Phase 1 assessment wells, at concentrations in excess of the 2L Standard established for benzene. The presence of benzene has been consistent with its historical detections reported for well MW-3S. The detected concentration appeared slightly higher comparing to the one reported during May 2015 monitoring event. Historically benzene has been reported in the groundwater samples collected from well MW-3A, however for the first time during this monitoring event the reported concentration was in excess of the 2L Standard.

During November 2015 monitoring event vinyl chloride was found in one monitoring well MW-6 at concentration in excess of the 2L Standard. Vinyl chloride has not been reported in this well before.

During November 2015 monitoring event 2-butanone was found in the groundwater sample collected from monitoring well MW-4 (Phase 1) at concentration below its SWSL and 2L Standard. Previously 2-butanone was reported for the first time as present in the groundwater sample collected from monitoring well MW-5 (Phase 1) at concentration below its SWSL and 2L Standard in May 2015. Before May 2015 event 2-butanone had not been reported as present in the groundwater at the site.

During November 2015 monitoring event carbon disulfide was found in the groundwater sample collected from monitoring well MW-5 (Phase 1) at concentration below its SWSL and 2L Standard. Previously in May 2015 carbon disulfide was found in the groundwater samples collected from several monitoring wells at concentrations below its SWSL and 2L Standard also. Before May 2015 event carbon disulfide had not been reported as present in the groundwater at the site.

During November 2015 monitoring event ethylbenzene and styrene were found in the groundwater sample collected from monitoring well MW-3S (Phase 1 assessment well) at concentrations below the applicable SWSLs and 2L Standards. These are the first detections of ethylbenzene and styrene reported in the groundwater sample collected from this well.

Tetrahydrofuran was detected in the groundwater samples collected from seven (7) monitoring wells MW-3S, MW-3A, MW-5, MW-7, MW-8, MW-11, and MW-12S during November 2015 monitoring event. Tetrahydrofuran has been consistently present in the groundwater at the site, since sampling for this parameter began in 2011. There is no regulatory standard established for tetrahydrofuran, therefore the implications of these results have yet to be determined.

Toluene was reported in MW-3S (Phase 1 assessment well) groundwater sample during this monitoring event at concentration below its SWSL and 2L Standard. Since January 2010 monitoring event this is the second toluene detection in the groundwater sample collected from MW-3S well.

Neither constituent shows a trend and has not been tied to the landfill operations.

VOCs were not detected in the surface water at the site. Historically, presence of VOCs in the surface water samples is inconsistent and no trends could be discerned from the collected data.

The historical analytical data for previously detected VOCs in the groundwater and surface water are presented in **Table 4.**

5.2 HERBICIDES DETECTION SUMMARY

Herbicides were not detected during November 2015 monitoring event. Data from May 2010, 2012, 2013, and 2014 monitoring events indicate trace values of common herbicides that might have been used during the former agricultural activities at the site. The impact might originate from a man-made drainage ditch between Phase 1 and Phase 2, but the full history of this portion of the site is unknown.

5.3 METALS DETECTION SUMMARY

Arsenic, cobalt, and vanadium were found in the groundwater at concentrations equal to or in excess of the respective 2L Standards during November 2015 monitoring event in one or more Phase 1 and Phase 2 monitoring wells. These detections however, do not appear to indicate any consistent pattern.

Arsenic was detected in MW-3S above its 2L Standard during November 2015 monitoring event. Arsenic has been consistently present in MW-3S groundwater, however this is the first arsenic detection at concentration in excess of the respective 2L Standard. Arsenic was reported in the background well MW-1S (Phase 1) during this monitoring event. Historically arsenic has been consistently present in the groundwater across the site, including the groundwater from background wells, however majority of the detected concentrations stay below the 2L Standard.

Cobalt was found in excess of its 2L Standard in wells MW-3S and MW-3A (assessment wells), MW-4, MW-5, MW-6, MW-7, MW-8 (assessment well), and MW-14S. Historically, cobalt has been present in the groundwater samples collected from all abovementioned wells at concentrations above 2L Standard, however no data trends can be discerned. Cobalt has been reported in the groundwater samples collected from background wells MW-1 and MW-9A since May 2010 monitoring event, however the concentrations were found below its 2L Standard.

Vanadium was detected in all sampled monitoring wells above 2L Standard, including both, Phase 1 background well MW-1S and the Phase 2 background well MW-9A. Vanadium has been consistently present in the groundwater across the site. Detected concentrations during the November 2015 monitoring event appear higher for majority of the wells comparing to the May 2015 reported detections.

It has to be noted that the highest turbidity value was measured at 393 NTUs (well MW-14S) at monitoring wells. Also, turbidity measured at wells MW-9A and MW-14S was higher comparing to the measurements obtained during previous monitoring events.

Detected metals in surface water samples were found below their respective 2B standards established for analyzed constituents. No trends can be discerned from the surface water data.

Metal concentrations in groundwater are often dependent on the turbidity or suspended particulates (from the aquifer formation) retrieved with the groundwater sample and also metals naturally occurring in the in-situ soil. The turbidity is a function of the sampling method, well construction, well development, depth to groundwater, and grain size/consolidation of the water-bearing zone. Since unfiltered samples are acidified in the field at the time of sample collection, metals contained within the particulates are dissolved into the water sample. Thus, the presence of turbidity in groundwater samples often results in elevated (false positive) analytical concentrations for metals. Therefore, the presence of elevated metal concentrations does not necessarily indicate a groundwater impact. Additionally, certain metals are considered naturally occurring within the in-situ soils and not caused by a release from a landfill.

The historical analytical data for metals detected in the groundwater and surface water are presented in **Table 4.**

5.4 INORGANIC AND FIELD PARAMETERS

During November 2015 monitoring event neither cyanide nor sulfide was reported present in any of the groundwater samples collected from the assessment monitoring wells.

The results of the field-measured groundwater quality parameters indicate that the values measured in the collected samples were consistent with historic reported values. The pH readings measured in some of the monitoring wells were outside the 2L standard pH range specified in the 15A NCAC 02L .0202[c] and indicate slightly acidic groundwater. In general, values of pH appear within a normal range at all locations. The turbidity values appeared higher comparing to the ones reported during May 2015 monitoring event in majority of the collected samples, especially in the ones collected from wells MW-9A and MW-14S.

The results of the field-measured surface water quality parameters indicate that the values measured in the collected samples were generally consistent with the historic data. The highest turbidity measurement was taken at the SW-2 sampling location.

5.5 CONCLUSIONS

The results of the groundwater monitoring event indicate ongoing groundwater impact at the assessment monitoring wells MW-3S and MW-3A, with benzene detections. Originally assessment monitoring at wells MW-3S and MW-8 was triggered by the detection of benzene. Benzene continues to be present in well MW-3S above the SWSL and 2L Standard, as well as in well MW-3A, for the first time during the November 2015 monitoring event at concentration reported above both SWSL and 2L Standard. Vinyl chloride was reported in the groundwater sample collected from well MW-6 only, for the first time at concentration reported above 2L Standard in this well.

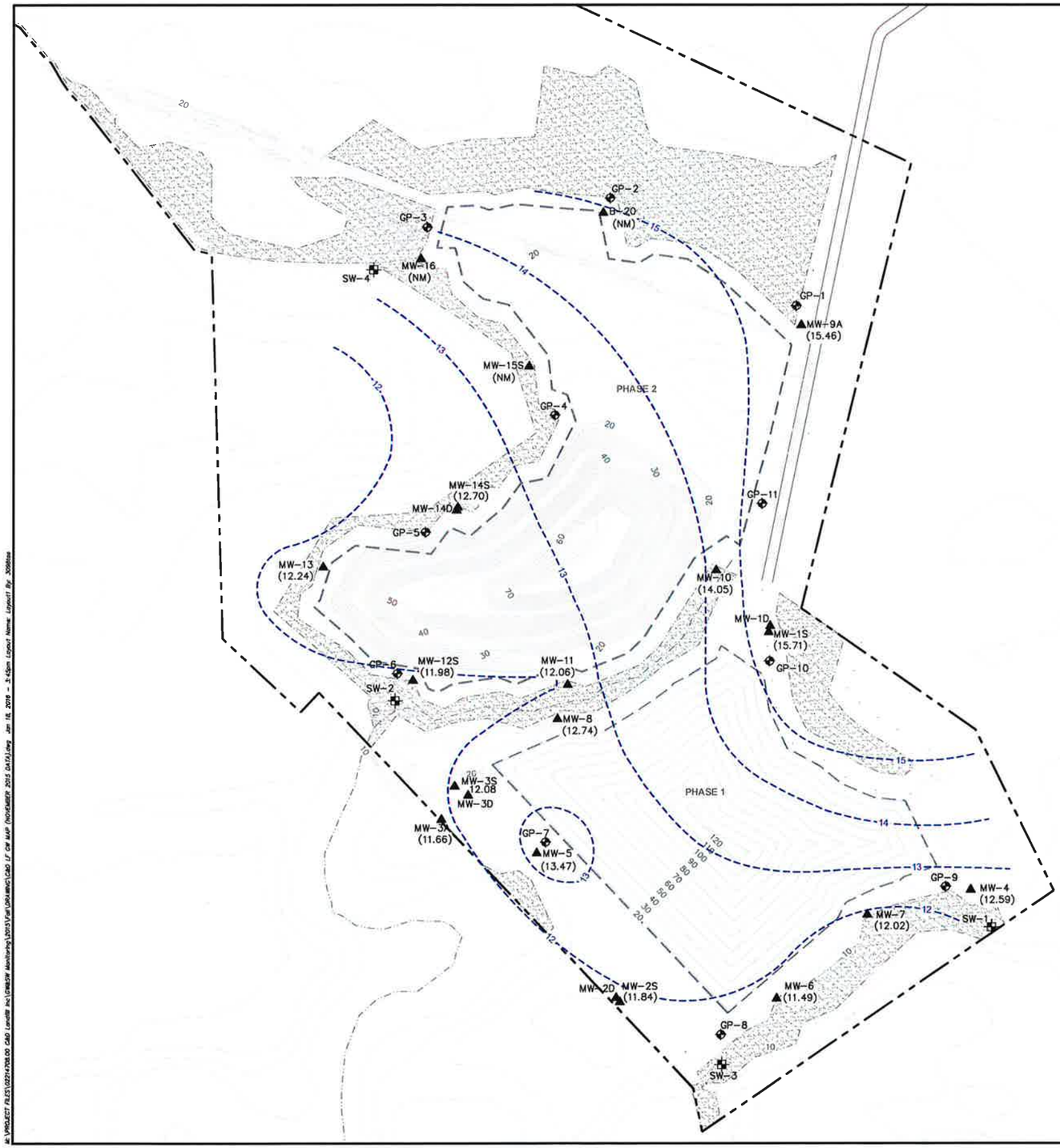
Neither benzene nor vinyl chloride were detected in the assessment wells MW-8 and MW-12S during the November 2015 monitoring event. However, monitoring well MW-12S will continue to be included in the assessment program, in order to observe detections at this well, and if they are associated with the ones found at nearby assessment well MW-8.

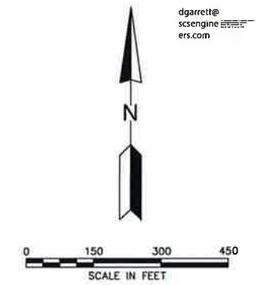
The groundwater quality impact does not appear severe and may not be attributable to landfill activities. There is no indication of any risk to the public at this time.

The results of the surface water monitoring event indicate conditions consistent with historic field and analytical data, and do not demonstrate an impact on surface water quality due to landfill activities.

The next water quality monitoring event at the C&D Landfill is scheduled for May 2016.

FIGURES





LEGEND:

- 2 FOOT ELEVATION CONTOUR
- 800 – 10 FOOT ELEVATION CONTOUR
- FACILITY BOUNDARY
- CELL BOUNDARY
- STREAM/WATER IMPOUNDMENT
- WETLANDS
- 12 – GROUNDWATER ELEVATION CONTOUR
- MW-7 (12.02) – GROUNDWATER MONITORING LOCATION AND GROUNDWATER ELEVATION
- SW-1 – SURFACE WATER MONITORING LOCATION
- GP-3 – SOIL GAS PROBE

NOTES:

1. SITE TOPOGRAPHY AND FACILITY DESIGN BY JOHN TUCKER, PE.
2. HYDROGEOLOGIC INVESTIGATION BY DAVID GARRETT, PG, PE.
3. ORIGINAL SITE CHARACTERIZATION STUDIES PERFORMED IN 2000 FOR PHASE 1 AND 2002 FOR PHASE 2.
4. GROUNDWATER POTENTIOMETRIC CONTOURS MODIFIED FROM CURRENT DATA FOR MONITORING WELLS MEASURED ON NOVEMBER 10, 2015.
5. FACILITY IS OWNED AND OPERATED BY C&D LANDFILL, INC. (JUDSON WHITEHURST, PRESIDENT).
6. SOLID WASTE PERMIT #74-07

dgarrett@scsengineers.com

NORTH CAROLINA LICENSED GEOLOGIST DAVID GARRETT

NC CORP. LICENSE NO. C-1837

NO.	REVISION	DATE

SHEET TITLE: NOVEMBER 2015 GROUNDWATER CONTOUR MAP

PROJECT TITLE: C&D LANDFILL PHASES 1 & 2 (74-07) WATER QUALITY REPORT

CLIENT: C&D LANDFILL, INC. 802 RECYCLING LANE GREENVILLE, NC 27834 (252) 757-0023

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PROJ. NO: 02214704.00 | DWN. BY: TAS | QA/QCW BY: MY | DATE: 2/8/2016
SSN. BY: QDG | CHK. BY: DMC | APP. BY: QDG

DATE: JANUARY 2016

SCALE: AS SHOWN

DRAWING NO. 1 of 1

W:\PROJECT FILES\02214704.00 C&D Landfill Inc\GWSSW Monitoring\2015\Final\GRAWING\CAD LF GW MAP (NOVEMBER 2015 DATA).dwg Jan 18, 2016 - 2:45pm Layout Name: Layout1 By: 3068tew

TABLES

Table 1
Groundwater Level and Flow Data
Construction and Demolition Debris (C&D) Landfill (Permit #74-07), Pitt County, North Carolina
November 2015

Well ID	TOC Elevation	Well Depth	Screened Interval	Depth To Water	Water Level Elevation
	(feet MSL)				
MW-1S (Well #1)	20.91	17.21	3 - 13	5.20	15.71
MW-2S (Well #2)	21.44	16.57	3 - 13	9.60	11.84
MW-3S (Well #3)	23.02	22.24	8 - 18	10.94	12.08
MW-3A	21.93	23.44	5 -15	10.27	11.66
MW-4	18.42	15.98	3 - 13	5.83	12.59
MW-5	17.90	7.84 [11]	3 - 18	4.43	13.47
MW-6	20.03	16.65	3 - 13	8.54	11.49
MW-7	19.40	16.33	3 - 13	7.38	12.02
MW-8	21.21	20.26	3 - 18	8.47	12.74
MW-9A	20.58	23.17	5 - 20	5.12	15.46
MW-10	16.61	22.73	5 - 20	2.56	14.05
MW-11	14.49	23.84	5 - 20	2.43	12.06
MW-12S	16.18	22.93	5 - 20	4.20	11.98
MW-13	20.69	22.68	5 - 20	8.45	12.24
MW-14S	16.60	23.12	15 - 20	3.90	12.70

Well ID	Water Level Elevation	Reference Elevation	Vertical Change	Horizontal Change	K	n	I	v
	(feet)				(feet/day)		(ft/ft)	(ft/day)
MW-3A	11.66	12	0.34	32	0.805	0.08	0.011	0.107
MW-10	14.05	15	0.95	68	0.116	0.05	0.014	0.032
MW-11	12.06	13	0.94	87	0.009	0.04	0.011	0.002
MW-12S	11.98	12	0.02	20	0.322	0.06	0.001	0.005

NOTES:

1. Depth To Water was measured on November 10, 2015 for monitoring wells.
2. **TOC** = top of casing. TOC elevation in feet MSL (mean sea level).
3. **Well Depth** and **Screened Interval** in feet below GS.
4. **Depth To Water** in feet from TOC.
5. Phase I monitoring wells (MW-3A through MW-8) were surveyed (July 2001 and November 2002) by Burgess Land Surveying from Greenville, South Carolina.
6. Phase II monitoring wells (MW-9A through MW-14S) construction data obtained from records furnished by David Garrett, PG, PE.
7. **K** - hydraulic conductivity. Values obtained from slug testing performed by EFM, Inc.
8. **ft** = feet.
9. **n** - effective porosity. Values approximated based on the grain-size data from lab testing of site soils for Phase II Design Hydrogeologic Report.
10. **I** - hydraulic gradient. Values obtained by dividing water level elevation difference by horizontal distance between closest two contour lines to each well location.
11. **v** - flow rate; GW flow rate calculated based on the modified Darcy equation: v = (K*I)/n.
12. During May 2014 monitoring event MW-5 well depth was measured at 21.06 feet. Well depth was not measured and groundwater sample was not collected during November 2014 monitoring event due to well damage. Well depth changed for May 2015 monitoring event since MW-5 was reinstalled.

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill (Permit #74-07), Pitt County, North Carolina
November 2015

Parameter		MDL	MRL	Compliance Limit		Phase I Monitoring Well ID and Analytical Results (µg/L)			
				SWSL	2L Standard	MW-1S (Well #1)	MW-2S (Well #2)	MW-3S (Well #3)	MW-3A
Metals (µg/L)	Antimony	0.02	3	6	1	0.95 J	0.15 J	0.16 J	0.24 J
	Arsenic	0.14/0.50	5	10	10	1.0 J	1.2 J	**11**	8 J
	Barium	0.01	100	100	700	21.4 J	34.6 J	**625**	**145**
	Beryllium	0.02	1	1	4	0.02 U	0.07 J	0.04 J	0.04 J
	Cadmium	0.01	1	1	2	0.08 J	0.26 J	0.04 J	0.15 J
	Chromium	0.12	5	10	10	0.12 U	1.2 J	7.3 J	5.1 J
	Cobalt	0.03	10	10	1	0.30 J	0.39 J	2.7 J	**11**
	Copper	0.02	10	10	1,000	1.6 J	2.7 J	2.3 J	1.3 J
	Lead	0.03	5	10	15	0.26 J	2.6 J	0.09 J	0.28 J
	Nickel	0.01	10	50	100	2.9 J	1.3 J	5.7 J	9.7 J
	Selenium	0.22/0.53	10	10	20	0.23 J	0.26 J	0.79 J	0.22 U
	Silver	0.01	5	10	20	0.01 U	0.01 U	0.01 U	0.03 J
	Thallium	0.02	1	5.5	0.2	0.02 U	0.07 J	0.02 U	0.16 J
	Tin	0.06	100	100	2,000	0.06 U	NA	0.14 J	0.35 J
	Vanadium	0.22	10	25	0.3	2.3 J	2.8 J	3.2 J	1.5 J
	Zinc	0.20	10	10	1,000	1.7 J	3.2 J	1.7 J	6.9 J
VOCs (µg/L)	Benzene	0.24	1.0	1	1	0.24 U	0.24 U	**1.70**	**1.70**
	2-Butanone	2.21	100	100	4,000	2.21 U	2.21 U	2.21 U	2.21 U
	Carbon Disulfide	0.23	100	100	700	0.23 U	0.23 U	0.23 U	0.23 U
	Ethylbenzene	0.21	1	1	600	0.21 U	0.21 U	0.80 J	0.21 U
	Styrene	0.19	1	1	70	0.19 U	0.19 U	0.50 J	0.19 U
	Tetrahydrofuran	0.39	1	NE	NE	0.39 U	0.39 U	20.90	8.60
	Toluene	0.23	1.0	1	600	0.23 U	0.23 U	0.40 J	0.23 U
	Vinyl chloride	0.63	1.0	1	0.03	0.63 U	0.63 U	0.63 U	0.63 U
Field Parameters	pH (S.U.)	NA	NA	NE	6.5 - 8.5	6.4	5.8	6.7	6.5
	Conductivity at 25°C (µS/cm)	1.0	NA	NE	NE	507	394	3,010	1,978
	Turbidity (NTU)	1.0	NA	NE	NE	3.63	30.6	2.61	7.32

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill (Permit #74-07), Pitt County, North Carolina
November 2015

Parameter		MDL	MRL	Compliance Limit		Phase I Monitoring Well ID and Analytical Results (µg/L)				
				SWSL	2L Standard	MW-4	MW-5	MW-6	MW-7	MW-8
Metals (µg/L)	Antimony	0.02	3	6	1	0.19 J	1.4 J	0.24 J	0.27 J	0.32 J
	Arsenic	0.14/0.50	5	10	10	3.6 J	3.5 J	3.6 J	2.9 J	2.1 J
	Barium	0.01	100	100	700	**109**	**233**	**131**	**294**	**131**
	Beryllium	0.02	1	1	4	0.30 J	0.08 J	0.05 J	0.05 J	0.02 U
	Cadmium	0.01	1	1	2	0.21 J	0.38 J	0.45 J	0.35 J	0.12 J
	Chromium	0.12	5	10	10	3.3 J	9.8 J	1.3 J	9.9 J	1.3 J
	Cobalt	0.03	10	10	1	1.3 J	1.5 J	1.1 J	4.1 J	4.0 J
	Copper	0.02	10	10	1,000	1.0 J	4.9 J	1.9 J	5.6 J	0.71 J
	Lead	0.03	5	10	15	2.0 J	0.65 J	0.19 J	0.35 J	0.16 J
	Nickel	0.01	10	50	100	2.5 J	10.1 J	2.3 J	5.4 J	2.5 J
	Selenium	0.22/0.53	10	10	20	1.8 J	**10**	0.81 J	9.6 J	1.7 J
	Silver	0.01	5	10	20	0.02 J	0.03 J	0.01 J	0.01 U	0.02 J
	Thallium	0.02	1	5.5	0.2	0.05 J	0.09 J	0.06 J	0.04 J	0.18 J
	Tin	0.06	100	100	2,000	NA	NA	NA	NA	0.20 J
	Vanadium	0.22	10	25	0.3	5.3 J	1.2 J	4.1 J	1.9 J	1.2 J
	Zinc	0.20	10	10	1,000	5.9 J	6.6 J	6.2 J	6.1 J	1.3 J
VOCs (µg/L)	Benzene	0.24	1.0	1	1	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	2-Butanone	2.21	100	100	4,000	17.70 J	2.21 U	2.21 U	2.21 U	2.21 U
	Carbon Disulfide	0.23	100	100	700	0.23 U	0.30 J	0.23 U	0.23 U	0.23 U
	Ethylbenzene	0.21	1	1	600	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	Styrene	0.19	1	1	70	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	Tetrahydrofuran	0.39	1	NE	NE	0.39 U	0.50 J	0.39 U	1.60	2.60
	Toluene	0.23	1.0	1	600	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	Vinyl chloride	0.63	1.0	1	0.03	0.63 U	0.63 U	0.80 J	0.63 U	0.63 U
Field Parameters	pH (S.U.)	NA	NA	NE	6.5 - 8.5	6.1	6.6	6.6	6.9	6.1
	Conductivity at 25°C (µS/cm)	1.0	NA	NE	NE	514	1,503	400	1,621	665
	Turbidity (NTU)	1.0	NA	NE	NE	22.0	6.32	10.1	9.12	4.39

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill (Permit #74-07), Pitt County, North Carolina
November 2015

Parameter		MDL	MRL	Compliance Limit		Phase II Monitoring Well ID and Analytical Results (µg/L)					
				SWSL	2L Standard	MW-9A	MW-10	MW-11	MW-12S	MW-13	MW-14S
Metals (µg/L)	Antimony	0.02	3	6	1	0.20 J	0.17 J	0.12 J	0.14 J	0.16 J	0.12 J
	Arsenic	0.14/0.50	5	10	10	0.14 U	1.2 J	0.24 J	2.8 J	0.26 J	2.4 J
	Barium	0.01	100	100	700	54.3 J	**119**	21.3 J	69.2 J	57.7 J	93.8 J
	Beryllium	0.02	1	1	4	0.02 U	0.05 J	0.06 J	0.04 J	0.03 J	0.48 J
	Cadmium	0.01	1	1	2	0.18 J	0.62 J	0.45 J	**1**	**1**	0.66 J
	Chromium	0.12	5	10	10	0.12 U	1.7 J	0.65 J	2.7 J	0.42 J	8.4 J
	Cobalt	0.03	10	10	1	0.10 J	0.38 J	0.52 J	0.30 J	0.35 J	1.6 J
	Copper	0.02	10	10	1,000	0.46 J	0.75 J	1.1 J	1.5 J	2.0 J	3.6 J
	Lead	0.03	5	10	15	0.16 J	0.11 J	0.09 J	0.19 J	1.0 J	**13**
	Nickel	0.01	10	50	100	1.9 J	1.7 J	4.1 J	2.3 J	2.5 J	4.1 J
	Selenium	0.22/0.53	10	10	20	0.22 U	2.5 J	0.91 J	0.91 J	0.63 J	0.22 U
	Silver	0.01	5	10	20	0.01 U	0.01 U	0.01 U	0.03 J	0.01 U	0.02 J
	Thallium	0.02	1	5.5	0.2	0.02 U	0.02 U	0.03 J	0.07 J	0.06 J	0.13 J
	Tin	0.06	100	100	2,000	NA	NA	NA	0.35 J	NA	NA
	Vanadium	0.22	10	25	0.3	0.91 J	5.3 J	0.54 J	3.2 J	5.8 J	**27**
	Zinc	0.20	10	10	1,000	4.8 J	2.8 J	4.5 J	6.0 J	3.6 J	**35**
VOCs (µg/L)	Benzene	0.24	1.0	1	1	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	2-Butanone	2.21	100	100	4,000	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U
	Carbon Disulfide	0.23	100	100	700	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	Ethylbenzene	0.21	1	1	600	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
	Styrene	0.19	1	1	70	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	Tetrahydrofuran	0.39	1	NE	NE	0.39 U	0.39 U	2.50	1.80	0.39 U	0.39 U
	Toluene	0.23	1.0	1	600	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	Vinyl chloride	0.63	1.0	1	0.03	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Field Parameters	pH (S.U.)	NA	NA	NE	6.5 - 8.5	7.2	5.6	6.2	6.1	5.9	6.4
	Conductivity at 25°C (µS/cm)	1.0	NA	NE	NE	365	630	743	577	415	138
	Turbidity (NTU)	1.0	NA	NE	NE	125	4.47	1.30	20.0	18.4	393

Table 2
Summary of Groundwater Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill (Permit #74-07), Pitt County, North Carolina
November 2015

NOTES:

1. Table 2 lists all detected compounds in the groundwater. Please refer to Environment 1, Incorporated laboratory analysis report for further details.
2. Groundwater samples were collected on November 10, 2015. Monitoring well MW-5 was not sampled due to insufficient water for the samples to be collected.
3. Phase 1 monitoring wells are as follows: MW-1S (background well), MW-2S, MW-1D, MW-2D, MW-3D, MW-4, MW-5, MW-6, MW-7 (detection monitoring program) and MW-3S, MW-3A and MW-8 (detection and assessment monitoring program).
4. Phase 2 monitoring wells are as follows: MW-9A (background well), MW-10, MW-11, MW-12S, MW-13, MW-14S, and MW-14D (detection monitoring program).
5. MDL = Method Detection Limit.
6. MRL = Method Reporting Limit.
7. Compliance Limit = SWSL or 2L Standard.
8. SWSL = Solid Waste Section Limit (June 13, 2011).
9. 2L Standard = NCAC Title 15A Subchapter 2L Classifications and Water Quality Standards Applicable to the GWs of North Carolina (April 1, 2013).
10. J indicates the detected result is below the SWSL or between MDL and SWSL.
11. U indicates concentration below MDL and MRL; non-detect.
12. µg/L = micrograms per liter.
13. ND = Not Detected. NE = Not Established. NA = Not Applicable.
14. **Bold font** indicates analyte detection above SWSL.
15. **Shaded field** denotes result that was at or above the 2L Standard.
16. S.U. = Standard Units.
17. µS/cm = microsiemens per centimeter.
18. NTU = Nephelometric Turbidity Units.

Table 3
Summary of Surface Water Quality Data - Detected Constituents Only
Construction and Demolition Debris (C&D) Landfill (Permit #74-07), Pitt County, North Carolina
November 2015

Parameter		MDL	MRL	Compliance Limit		Sample Locations and Analytical Results (µg/L)			
				SWSL	2B Standard	SW-1	SW-2	SW-3	SW-4
Metals (µg/L)	Antimony	0.02	3	6	640	0.10 J	0.09 J	0.06 J	0.86 J
	Arsenic	0.14	5	10	10	0.71 J	0.55 J	0.52 J	0.39 J
	Barium	0.01	100	100	200,000	55.8 J	44.7 J	63.2 J	74.0 J
	Beryllium	0.02	1.0	1	6.5	0.02 J	0.03 J	0.13 J	0.09 J
	Cadmium	0.01	1	1	2	0.04 J	0.04 J	0.07 J	0.08 J
	Chromium	0.12	5	10	50	0.86 J	0.43 J	0.85 J	0.53 J
	Cobalt	0.03	10	10	4	0.26 J	0.20 J	0.74 J	0.26 J
	Copper	0.02	10	10	7 (AL)	0.66 J	0.87 J	0.72 J	0.74 J
	Lead	0.03	5	10	25	0.38 J	0.46 J	1 J	0.68 J
	Nickel	0.01	10	50	88	0.80 J	0.74 J	0.88 J	0.75 J
	Selenium	0.22	10	10	5	0.46 J	0.22 U	0.22 U	0.22 U
	Silver	0.01	5	10	0.06 (AL)	0.01 U	0.01 U	0.01 U	0.03 J
	Thallium	0.02	1	5.5	0.47	0.02 U	0.02 U	0.04 J	0.07 J
	Vanadium	0.22	10	25	NE	1.3 J	0.84 J	1.7 J	1.5 J
	Zinc	0.20	10	10	50	4.7 J	4.8 J	9.4 J	9.8 J
Field Parameters	pH (S.U.)	NA	NA	NE	6.0 - 9.0	6.8	6.8	6.8	6.4
	Conductivity at 25 °C (µS/cm)	NA	NA	NE	NE	292	153	191	127
	Turbidity (NTU)	NA	NA	NE	50	9.52	27.4	24.8	14.5

NOTES:

Table 3 lists all detected compounds in the surface water. Please refer to Environment 1, Incorporated laboratory analysis report for further details.

Surface water samples were collected on November 10, 2015.

MDL = Method Detection Limit.

MRL = Method Reporting Limit.

Compliance Limit = SWSL or 2B Standard.

SWSL = Solid Waste Section Limit (June 13, 2011).

2B Standard = Standards, criteria, or toxic concentrations either adopted per 15A NCAC 2B or National Criteria per EPA (Current as of 5/15/2013).

(AL) = Action Level Standard (See 2B .0211 for additional information).

J indicates the detected result is below the SWSL.

U indicates concentration below MDL and MRL; non-detect.

µg/L = micrograms per liter.

ND = Not Detected. NE = Not Established. NA = Not Applicable.

Bold font indicates analyte detection above MDL.

Shaded field denotes result that was at or above the Compliance Limit.

S.U. = Standard Units.

µS/cm = microsiemens per centimeter.

NTU = Nephelometric Turbidity Units.

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Antimony CAS No. 7440-36-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	6	1	640		ND	0.4 J	0.1 J		ND	ND	0.2 J	ND	ND							NS	ND	ND	
May-2008				0.08	ND	ND	ND		0.1 J	0.5 J	0.2 J	0.2 J	0.1 J							0.2 J	ND	ND	
Nov-2008					0.1 J	0.1 J	0.1 J		0.1 J	0.1 J	0.2 J	0.1 J	ND							ND	0.6 J	0.1 J	
May-2009				0.06	0.1 J	0.1 J	ND		0.7 J	0.2 J	0.1 J	ND	ND							0.1 J	ND	ND	
Jan-2010				0.06	ND	0.1 J	ND	ND	ND	0.5	ND	ND	ND	0.4 J	ND	ND	ND	ND	0.2 J	0.1 J	0.1 J	0.6 J	0.2 J
May-2010				0.22	ND	0.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.22	ND	ND	ND	ND	ND	0.6 J	ND	ND	ND	ND	ND	ND	0.8 J	ND	ND	ND	ND	ND	ND
May-2011				0.14	0.19 J	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	0.47 J	ND	ND	ND	0.2 J	ND	0.29 J
Nov-2011				0.14	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	ND	ND	ND	0.51 J	ND	ND	ND	ND	ND	ND
May-2012				0.02	0.12 J	0.12 J	0.27 J	0.10 J	0.15 J	0.36 J	0.17J	0.16 J	0.13 J	0.03 J	0.04 J	0.06 J	0.24 J	0.10 J	0.34 J	0.13 J	0.09 J	0.05 J	0.04 J
Nov-2012				0.02	0.14 J	0.28 J	0.16 J	0.50 J	0.14 J	0.5 J	0.07 J	0.15 J	0.16 J	0.06 J	0.09 J	0.08 J	0.3 J	0.10 J	0.14 J	ND	0.10 J	ND	ND
May-2013				0.02	0.07 J	0.09 J	ND	0.07 J	ND	0.34 J	0.07 J	0.31 J	0.14 J	0.04 J	0.04 J	0.05 J	0.18 J	0.03 J	0.15 J	0.14 J	0.04 J	0.03 J	DRY
May-2014				0.02	0.19 J	0.02 U	0.02 U	0.03 J	0.02 U	0.34 J	0.02 U	0.12 J	0.07 J	0.02 U	0.02 U	0.02 U	0.10 J	0.02 U	0.17 J	0.02 U	0.02 U	0.02 U	DRY
Nov-2014				0.12	16	0.16 J	0.14 J	0.12 U	0.78 J	NS	0.18 J	0.22 J	0.20 J	0.12 U	0.24 J	0.24 J	0.34 J	0.12 U	0.21 J	0.12 U	0.12 U	0.46 J	DRY
May-2015				0.02	0.26 J	0.03 J	0.06 J	0.02 U	0.23 J	0.52 J	0.08 J	0.22 J	0.11 J	0.02 U	0.02 U	0.02 U	0.70 J	0.02 U	0.18 J	0.65 J	0.18 J	0.06 J	0.04 J
Nov-2015				0.02	0.95 J	0.15 J	0.16 J	0.24 J	0.19 J	1.4 J	0.24 J	0.27 J	0.32 J	0.20 J	0.17 J	0.12 J	0.14 J	0.16 J	0.12 J	0.10 J	0.09 J	0.06 J	0.86 J

Parameter : Arsenic CAS No. 7440-38-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	10	10		ND	4.2 J	6.7 J		1.3 J	5.3 J	16	6.4 J	ND							NS	2.0 J	0.5 J	
May-2008				0.07	0.5 J	1.3 J	0.4 J		1.0 J	5.0 J	5.3 J	3.6 J	4.5 J							11	1.1 J	0.1 J	
Nov-2008					1.1 J	5.6 J	8.4 J		0.3 J	2.1 J	11	3.3 J	2.7 J							ND	5.3 J	0.9 J	
May-2009				0.17	1.8 J	2.2 J	7.0 J		2.8 J	1.3 J	2.9 J	1.0 J	1.6 J							6.3 J	1.4 J	0.8 J	
Jan-2010				0.17	2.1 J	0.8 J	6.8 J	2.6 J	2.8 J	5.8 J	6.4 J	0.5 J	4.0 J	1.3 J	0.5 J	ND	ND	2.4 J	1.3 J	3.9 J	0.3 J	ND	0.2 J
May-2010				0.04	0.7 J	1.7 J	9.2 J	1.0 J	2.6 J	3.9 J	6.1 J	4.5 J	7.5 J	0.3 J	0.5 J	ND	0.4 J	1.4 J	ND	0.9 J	1.3 J	0.4 J	0.6 J
Nov-2010				0.04	1.9 J	5.6 J	ND	5.4 J	2.3 J	ND	4.8 J	0.9 J	4.0 J	0.6 J	1.1 J	0.6 J	5.3 J	1.8 J	1.6 J	2 J	1.1 J	0.6 J	0.5 J
May-2011				0.10	0.36 J	3.1 J	3.8 J	0.93 J	1.6 J	6.4 J	2.2 J	1.5 J	3.2 J	0.60 J	0.52 J	ND	5.9 J	0.29 J	1.5 J	3.1 J	0.82 J	1.1 J	1.3 J
Nov-2011				0.10	1.1 J	0.9 J	4.9 J	2.2 J	1.9 J	3.3 J	2.4 J	0.81 J	2.7 J	0.50 J	2.5 J	0.23 J	11	0.52 J	1.7 J	2.0 J	2.5 J	0.99 J	0.51 J
May-2012				0.13	0.88 J	6.1 J	4.2 J	2.8 J	2.9 J	6.8 J	2.2 J	2.3 J	5.8 J	0.50 J	1.1 J	0.41 J	24	0.62 J	4.0 J	4.7 J	2.0 J	1.0 J	0.92 J
Nov-2012				0.13	0.74 J	9 J	5.7 J	5.5 J	0.9 J	1.9 J	2.4 J	0.72 J	8.0 J	0.17 J	1.5 J	0.82 J	15	0.76 J	3.7 J	0.93 J	0.68 J	0.50 J	0.82 J
May-2013				0.05	0.02 J	5.3 J	3.7 J	2.4 J	0.83 J	2.4 J	2.4 J	5.0 J	6.2 J	0.15 J	0.74 J	0.58 J	19	0.34 J	5.0 J	1.2 J	0.81 J	0.35 J	DRY
May-2014				0.05	0.05 U	0.12 J	3.8 J	0.05 U	0.05 U	0.28 J	0.05 U	2.1 J	5.8 J	0.05 U	0.05 U	0.05 U	11	0.05 U	0.30 J	0.67 J	1.4 J	0.26 J	DRY
Nov-2014				0.10	0.86 J	7 J	9 J	4.5 J	0.66 J	NS	3.4 J	4.1 J	10	0.10 U	0.84 J	0.17 J	36	0.37 J	6.9 J	0.78 J	0.47 J	0.33 J	DRY
May-2015				0.14/0.50	2.2 J	0.15 J	6.1 J	0.50 U	1.7 J	11	1.3 J	5 J	4.3 J	0.14 U	0.73 J	0.46 J	15	0.41 J	1.2 J	0.82 J	0.56 J	0.71 J	0.80 J
Nov-2015				0.14/0.50	1.0 J	1.2 J	11	8 J	3.6 J	3.5 J	3.6 J	2.9 J	2.1 J	0.14 U	1.2 J	0.24 J	2.8 J	0.26 J	2.4 J	0.71 J	0.55 J	0.52 J	0.39 J

Parameter : Barium CAS No. 7440-39-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	100	700	200,000		62.4 J	96.9 J	357		207	115	233	136	214							NS	126	571	
May-2008				0.11	27.5 J	51.8 J	4 J		203	101	65 J	31 J	127							174	71.2 J	63 J	
Nov-2008					62.5 J	165	447		196	48.3 J	161	103	121							ND	268	75.1 J	
May-2009				0.04	26 J	6.9 J	460		266	117	56.1	31 J	113							181	61.6 J	78.7 J	
Jan-2010				0.04	77.4 J	15.4 J	492	84.2 J	165	83.8 J	137	29.1 J	169	55.4 J	113	23.4 J	98.5 J	82.8 J	100	89.2 J	71.3 J	76.1 J	70.9 J
May-2010				0.03	23.5 J	47.5 J	527	42.7 J	202	92.1 J	215	266	140	29.4 J	129	14.2 J	39.2 J	86.7 J	107	33.3 J	79.4 J	69.2 J	82.1 J
Nov-2010				0.03	56.6 J	149	254	100	141	129	155	34.3 J	164	32.9 J	63.2 J	31.4 J	177.0	106.0	177	49.8 J	59.1 J	75.5 J	94.2 J
May-2011				0.02	36 J	101	242	36 J	174	80.5 J	124	174	124	50.7 J	89.2 J	19.2 J	346.0	92.3 J	127	70.8 J	71.6 J	77.8 J	137
Nov-2011				0.02	58.7 J	34.3 J	484	70.7 J	183	150	157	67.4 J	184	43.6 J	43.6 J	17.3 J	467.0	67.8 J	223	48.7 J	69.4 J	73.3 J	81.2 J
May-2012				0.07	68.3 J	166	342	86.6 J	278	122	128	294	142	48.9 J	87.5 J	23.9 J	291.0	74.2 J	105	78.8 J	84.8 J	60.8 J	74.3 J
Nov-2012				0.07	37.1 J	152	425	120	151	117	53.4 J	100	133	36.5 J	132	19.3 J	504.0	76.6 J	74.7 J	38.0 J	49.1 J	74.1 J	70.6 J
May-2013				0.06	73.9 J	80.2 J	288	62.5 J	108	115	209	560	144	39.5 J	169	19.8 J	342.0	69.7 J	69.4 J	50.2 J	64.6 J	30.3 J	DRY
May-2014				0.06	20.3 J	33.0 J	343	28.6 J	80.2 J	67.9 J	110	291	157	29.3 J	58.9 J	18.3 J	368.0	52.4 J	90.9 J	94.3 J	72.9 J	37.9 J	DRY
Nov-2014				0.12	64.5 J	273	675	123	7.3 J	NS	246	398	189	32.1 J	100	19.7 J	515	69.9 J	207	86.6 J	57.7 J	46.6 J	DRY
May-2015				0.01	19.9 J	34.3 J	412	17.9 J	151	130	271	819	202	25.8 J	63.2 J	24.4 J	292	57.1 J	54.3 J	57.6 J	59.7 J	54.2 J	78.3 J
Nov-2015				0.01	21.4 J	34.6 J	625	145	109	233	131	294	131	54.3 J	119	21.3 J	69.2 J	57.7 J	93.8 J	55.8 J	44.7 J	63.2 J	74.0 J

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Beryllium CAS No. 7440-41-7

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	4	6.5		0.6 J	ND	ND		0.8 J	0.1 J	0.9 J	0.1 J	0.1 J							NS	ND	0.1 J	
May-2008				0.06	1.0	0.1 J	ND		0.4 J	0.1 J	0.1 J	0.1 J	0.1 J							0.7 J	0.1 J	0.1 J	
Nov-2008					0.7 J	ND	ND		0.2 J	0.1 J	0.1 J	0.1 J	ND							ND	0.4 J	0.1 J	
May-2009				0.06	2.6	ND	ND		0.9 J	0.5 J	0.1 J	0.1 J	ND							0.6 J	ND	0.1 J	
Jan-2010				0.06	0.2 J	0.9 J	ND	0.1 J	1.0	1.0	0.1 J	ND	0.1 J	0.2 J	0.2 J	0.3 J	ND	0.3 J	0.6 J	0.2 J	ND	0.2 J	0.1 J
May-2010				0.02	0.5 J	0.1 J	ND	ND	0.8 J	0.5 J	0.1 J	0.1 J	0.4 J	ND	0.1 J	0.1 J	0.1 J	0.3 J	0.1 J	0.1 J	0.1 J	0.1 J	0.1 J
Nov-2010				0.02	0.3 J	0.1 J	0.1 J	0.1 J	0.7 J	1.0	0.1 J	0.1 J	0.2 J	ND	0.1 J	0.2 J	0.1 J	0.3 J	0.2 J	0.1 J	0.1 J	0.1 J	0.1 J
May-2011				0.02	0.16 J	0.1 J	ND	ND	0.57 J	0.92 J	ND	ND	0.06 J	ND	0.29 J	0.31 J	ND	0.12 J	0.2 J	0.12 J	0.06 J	ND	0.57 J
Nov-2011				0.02	0.26 J	0.07 J	ND	ND	0.65 J	0.24 J	0.06 J	0.06 J	0.24 J	ND	0.16 J	0.10 J	ND	0.14 J	0.29 J	ND	0.06 J	0.09 J	0.10 J
May-2012				0.07	0.19 J	0.17 J	ND	ND	0.50 J	0.50 J	ND	ND	0.13 J	ND	0.09 J	0.08 J	ND	0.12 J	2.0	0.19 J	ND	ND	0.15 J
Nov-2012				0.07	0.18 J	0.09 J	ND	ND	0.47 J	0.13 J	0.09 J	ND	0.09 J	ND	0.08 J	0.29 J	ND	0.13 J	0.39 J	ND	ND	ND	0.12 J
May-2013				0.03	0.04 J	0.10 J	0.09 J	ND	ND	0.23 J	0.16 J	ND	ND	ND	0.08 J	1.0	0.03 J	0.12 J	0.48 J	0.12 J	0.07 J	0.11 J	DRY
May-2014				0.03	0.03 U	0.06 J	0.03 J	0.03 U	0.23 J	0.03 U	0.05 J	0.04 J	0.12 J	0.03 U	0.04 J	0.03 J	0.03 J	0.04 J	0.03 J	0.16 J	0.04 J	0.04 J	DRY
Nov-2014				0.04	0.04 U	0.11 J	0.04 U	0.04 U	0.04 U	NS	0.04 U	0.04 U	0.04 J	0.04 U	0.04 J	0.24 J	0.04 U	0.08 J	0.08 J	0.04 U	0.04 U	0.08 J	DRY
May-2015				0.02	0.03 J	0.08 J	0.04 J	0.02 J	0.55 J	0.20 J	0.15 J	0.06 J	0.26 J	0.02 U	0.04 J	0.18 J	0.02 U	0.02 U	0.04 J	0.06 J	0.05 J	0.11 J	0.04 J
Nov-2015				0.02	0.02 U	0.07 J	0.04 J	0.04 J	0.30 J	0.08 J	0.05 J	0.05 J	0.02 U	0.02 U	0.05 J	0.06 J	0.04 J	0.03 J	0.48 J	0.02 J	0.03 J	0.13 J	0.09 J

Parameter : Cadmium CAS No. 7440-43-9

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	2	2		0.7 J	0.3 J	0.7 J		0.5 J	0.6 J	0.6 J	0.4 J	0.3 J							NS	0.1 J	0.2 J	
May-2008				0.04	0.6 J	0.1 J	1		0.2 J	0.1 J	0.4 J	0.4 J	0.1 J							0.4 J	0.1 J	0.1 J	
Nov-2008					0.3 J	0.1 J	ND		0.3 J	ND	0.4 J	0.4 J	0.1 J							ND	0.3 J	ND	
May-2009				0.04	2.3	0.4 J	0.1 J		0.9 J	0.3 J	0.9 J	0.8 J	0.2 J							0.7 J	ND	ND	
Jan-2010				0.04	0.2 J	0.4 J	ND	0.2 J	0.3 J	0.6 J	0.3 J	0.2 J	0.2 J	0.1 J	ND	0.2 J	0.2 J	0.2 J	0.2 J	1.9	1.2	0.3 J	0.1 J
May-2010				0.02	0.2 J	0.8 J	0.3 J	0.1 J	1.2	0.3 J	2.2	2.0	0.2 J	0.2 J	1.0	0.1 J	0.2 J	0.4 J	0.1 J	0.2 J	0.1 J	0.1 J	0.1 J
Nov-2010				0.02	0.2 J	0.6 J	0.1 J	0.1 J	0.5 J	2.0	0.6 J	0.4 J	0.3 J	0.1 J	0.1 J	0.2 J	0.1 J	0.2 J	0.3 J	0.1 J	0.1 J	0.1 J	0.2 J
May-2011				0.02	0.11 J	0.29 J	0.07 J	0.1 J	0.35 J	0.64 J	0.43 J	0.4 J	0.06 J	0.05 J	0.8 J	0.17 J	0.1 J	0.16 J	0.12 J	0.22 J	0.11 J	0.29 J	0.14 J
Nov-2011				0.02	0.37 J	0.17 J	0.12 J	0.36 J	0.43 J	0.69 J	0.29 J	0.38 J	0.13 J	0.08 J	0.08 J	0.13 J	0.06 J	0.13 J	0.29 J	ND	ND	0.14 J	0.05 J
May-2012				0.03	ND	0.25 J	0.04 J	0.08 J	0.16 J	0.22 J	0.27 J	0.12 J	0.06 J	0.14 J	0.05 J	0.22 J	0.05 J	0.18 J	0.18 J	0.17 J	ND	ND	ND
Nov-2012				0.03	0.16 J	0.18 J	0.05 J	0.34 J	0.22 J	0.12 J	0.12 J	0.16 J	0.04 J	0.04 J	0.08 J	0.64 J	0.13 J	0.12 J	0.36 J	0.07 J	0.03 J	0.04 J	0.07 J
May-2013				0.05	0.15 J	0.29 J	0.11 J	0.07 J	0.09 J	0.20 J	0.31 J	0.14 J	0.13 J	0.64 J	0.06 J	0.97 J	0.68 J	0.21 J	0.18 J	0.08 J	0.05 J	0.08 J	DRY
May-2014				0.05	0.11 J	0.14 J	0.19 J	0.15 J	0.08 J	0.05 J	0.31 J	0.29 J	0.39 J	1.0	0.17 J	0.25 J	0.09 J	1.0	2.0	0.22 J	0.05 U	0.05 U	DRY
Nov-2014				0.04	0.12 J	0.44 J	0.17 J	0.12 J	0.04 U	NS	0.20 J	0.26 J	0.08 J	0.31 J	0.21 J	0.58 J	0.26 J	0.18 J	0.26 J	0.05 J	0.04 J	0.04 J	DRY
May-2015				0.01	0.13 J	0.13 J	0.03 J	0.01 J	0.33 J	0.62 J	0.48 J	0.44 J	0.10 J	0.10 J	0.08 J	0.33 J	0.09 J	0.10 J	0.86 J	0.07 J	0.02 J	0.03 J	0.03 J
Nov-2015				0.01	0.08 J	0.26 J	0.04 J	0.15 J	0.21 J	0.38 J	0.45 J	0.35 J	0.12 J	0.18 J	0.62 J	0.45 J	1	1	0.66 J	0.04 J	0.04 J	0.07 J	0.08 J

Parameter : Chromium CAS No. 7440-47-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	10	50		0.3 J	0.5 J	1.2 J		2.7 J	0.4 J	13	1.3 J	1.0 J							NS	1.5 J	ND	
May-2008				0.11	0.2 J	0.6 J	0.2 J		1.2 J	1.2 J	3.1 J	1.1 J	1.1 J							8.0 J	1.1 J	0.4 J	
Nov-2008					0.5 J	1.7 J	1.4 J		1.0 J	1.1 J	4.7 J	1.1 J	0.4 J							ND	5.0 J	0.3 J	
May-2009				0.10	ND	0.7 J	1.6 J		2.1 J	0.7 J	2.5 J	0.5 J	0.1 J							5.1 J	0.5 J	0.5 J	
Jan-2010				0.10	ND	ND	1 J	ND	2.8 J	2.7 J	0.8 J	ND	ND	2.7 J	0.9 J	ND	ND	0.7 J	2.6 J	2.1 J	0.7 J	0.4 J	0.3 J
May-2010				0.03	0.5 J	0.7 J	2 J	0.1 J	2.1 J	2.3 J	4.2 J	2.5 J	0.8 J	0.3 J	0.6 J	0.3 J	0.6 J	0.8 J	0.5 J	0.4 J	0.9 J	0.4 J	0.9 J
Nov-2010				0.03	0.5 J	0.6 J	1.7 J	0.3 J	3.1 J	11	2 J	0.4 J	0.8 J	ND	0.1 J	0.1 J	1.7 J	0.9 J	0.5 J	0.5 J	0.5 J	0.2 J	0.3 J
May-2011				0.04	0.44 J	0.62 J	0.76 J	0.3 J	3 J	6.2 J	2.4 J	1.2 J	0.84 J	0.17 J	0.83 J	0.23 J	2.6 J	0.51 J	0.48 J	1.8 J	0.58 J	0.99 J	3.1 J
Nov-2011				0.04	0.66 J	0.29 J	1.7 J	0.67 J	3.7 J	9.5 J	2.7 J	0.92 J	2.1 J	0.23 J	0.86 J	ND	14.0	0.57 J	1.3 J	0.74 J	1.2 J	0.63 J	0.46 J
May-2012				0.18	0.91 J	1.7 J	1.0 J	1.5 J	5.7 J	6.1 J	2.5 J	2.0 J	1.7 J	ND	0.50 J	ND	6.5 J	0.61 J	2.0 J	2.6 J	1.4 J	0.38 J	1.00 J
Nov-2012				0.18	0.45 J	1.9 J	1.5 J	2.3 J	3.6 J	5.2 J	1.8 J	1.5 J	3.0 J	ND	0.80 J	0.25 J	16.0	0.68 J	1.2 J	0.54 J	0.545 J	0.18 J	1.1 J
May-2013				0.04	0.50 J	0.57 J	0.50 J	1.0 J	2.2 J	4.8 J	3.2 J	7.4 J	2.2 J	0.13 J	1.1 J	0.78 J	19.0	0.59 J	5.8 J	2.4 J	1.6 J	1.6 J	DRY
May-2014				0.04	0.45 J	0.81 J	1.8 J	0.29 J	1.9 J	3.1 J	0.38 J	6.1 J	3.8 J	0.04 U	0.83 J	0.20 J	9.0 J	0.46 J	2.1 J	1.9 J	0.95 J	0.51 J	DRY
Nov-2014				0.14	1.6 J	3.5 J	5.1 J	2.8 J	0.14 U	NS	2.6 J	11	5.8 J	0.14 U	1.1 J	0.34 J	21	0.35 J	14	0.98 J	0.81 J	0.14 U	DRY
May-2015				0.12	0.17 J	0.14 J	2.6 J	0.12 U	3.0 J	9.3 J	0.86 J	18	2.9 J	0.18 J	1.4 J	1.1 J	8.9 J	0.63 J	0.82 J	1.2 J	1.1 J	1.2 J	0.95 J
Nov-2015				0.12	0.12 U	1.2 J	7.3 J	5.1 J	3.3 J	9.8 J	1.3 J	9.9 J	1.3 J	0.12 U	1.7 J	0.65 J	2.7 J	0.42 J	8.4 J	0.86 J	0.43 J	0.85 J	0.53 J

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Cobalt CAS No. 7440-48-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	1	4		1.5 J	9.3 J	9.4 J		1.0 J	2.3 J	6.3 J	17	ND							NS	0.8 J	0.7 J	
May-2008				0.03	0.8 J	1.3 J	0.1 J		1.0 J	1.7 J	1.7 J	2.6 J	19							1.2 J	0.8 J	1.0 J	
Nov-2008					0.9 J	10	17		0.4 J	0.5 J	4.4 J	2.8 J	12							ND	1.9 J	5.1 J	
May-2009				0.02	1.2 J	5.8 J	12.6		1.3 J	1.2 J	1.1 J	2.3 J	8.4 J							1.0 J	0.4 J	1.3 J	
Jan-2010				0.02	2.5 J	0.4 J	5.7 J	15	0.9 J	1.6 J	0.6 J	1.1 J	10	0.7 J	0.3 J	0.5 J	0.2 J	1.3 J	0.4 J	0.6 J	0.3 J	1.2 J	0.2 J
May-2010				0.10	0.7 J	1.1 J	18	3.8 J	0.9 J	2.8 J	5.4 J	9.0 J	21	0.2 J	0.2 J	0.3 J	0.2 J	0.9 J	0.2 J	0.3 J	0.6 J	0.6 J	0.5 J
Nov-2010				0.10	0.8 J	3.3 J	37	17	1.1 J	7.8 J	0.7 J	0.8 J	24	0.2 J	0.3 J	0.3 J	0.8 J	1.0 J	0.3 J	0.4 J	0.5 J	1.0 J	0.7 J
May-2011				0.03	0.41 J	3.7 J	14	7.7 J	0.58 J	1.5 J	1.4 J	4.2 J	31	0.09 J	2.2 J	0.26 J	1.5 J	1.2 J	0.18 J	0.84 J	1.5 J	0.42 J	1.6 J
Nov-2011				0.03	0.48 J	1.1 J	6.8 J	15	0.76 J	1.6 J	1.1 J	1.2 J	17	0.11 J	0.26 J	0.20 J	0.84 J	0.60 J	0.42 J	0.50 J	0.75 J	1.3 J	0.86 J
May-2012				0.02	0.38 J	7.0 J	2.6 J	25	0.63 J	1.7 J	1.3 J	3.6 J	31	0.06 J	0.45 J	0.22 J	0.72 J	1.5 J	3.4 J	0.89 J	0.79 J	0.76 J	0.72 J
Nov-2012				0.02	0.31 J	8.6 J	15	28	0.38 J	1.1 J	0.55 J	1.3 J	27	0.08 J	0.86 J	0.53 J	1.1 J	0.46 J	1.6 J	0.42 J	0.31 J	0.89 J	1.7 J
May-2013				0.02	0.20 J	2.0 J	2.2 J	18	0.35 J	1.6 J	3.0 J	9.2 J	24	0.04 J	0.33 J	0.73 J	0.88 J	0.47 J	2.4 J	0.73 J	0.52 J	0.48 J	DRY
May-2014				0.02	0.13 J	1.0 J	5.9 J	0.28 J	0.30 J	0.34 J	0.22 J	5.2 J	22	0.05 J	0.44 J	0.19 J	0.82 J	0.32 J	0.24 J	0.38 J	0.88 J	0.31 J	DRY
Nov-2014				0.12	0.33 J	5.6 J	2.6 J	15	0.13 J	NS	2.8 J	5.0 J	12	0.12 U	0.49 J	0.66 J	1.1 J	0.47 J	1.8 J	0.41 J	0.34 J	0.75 J	DRY
May-2015				0.03	0.44 J	0.29 J	0.89 J	0.12 J	0.80 J	2.6 J	0.91 J	18	14	0.06 J	0.31 J	0.43 J	0.81 J	0.28 J	0.79 J	0.33 J	0.32 J	0.48 J	0.34 J
Nov-2015				0.03	0.30 J	0.39 J	2.7 J	11	1.3 J	1.5 J	1.1 J	4.1 J	4.0 J	0.10 J	0.38 J	0.52 J	0.30 J	0.35 J	1.6 J	0.26 J	0.20 J	0.74 J	0.26 J

Parameter : Copper CAS No. 7440-50-8

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	1,000	7		ND	NA	1.8 J		2.3 J	1.6 J	6.7 J	2.7 J	1.6 J							NS	1.9 J	0.6 J	
May-2008				0.05	1.5 J	1 J	0.8 J		0.7 J	0.9 J	2.1 J	2.0 J	0.9 J							5.5 J	0.8 J	0.6 J	
Nov-2008					1.3 J	1.2 J	1.3 J		0.9 J	3.3 J	2.8 J	3.0 J	0.8 J							ND	5.6 J	1.1 J	
May-2009				0.04	0.7 J	1.9 J	1.4 J		1.8 J	2.6 J	2.3 J	1.6 J	0.6 J							4.9 J	1.5 J	0.4 J	
Jan-2010				0.04	0.9 J	1.2 J	1.9 J	1.3 J	1.8 J	1.6 J	1.1 J	2.4 J	0.7 J	1.3 J	1.0 J	0.8 J	0.7 J	1.2 J	2.4 J	2.7 J	0.8 J	0.8 J	0.7 J
May-2010				0.03	0.7 J	0.9 J	1.1 J	4.0 J	1.4 J	1.1 J	2.4 J	2.9 J	1.1 J	0.1 J	0.6 J	0.2 J	0.3 J	0.5 J	0.1 J	0.4 J	0.4 J	0.3 J	0.5 J
Nov-2010				0.03	0.5 J	1.1 J	1.1 J	0.5 J	1.3 J	3.9 J	1.5 J	0.8 J	0.8 J	ND	ND	ND	1.1 J	0.8 J	0.1 J	0.3 J	0.1 J	0.1 J	0.3 J
May-2011				0.02	1.1 J	1.5 J	1.3 J	1.1 J	1.9 J	4.4 J	1.6 J	1.5 J	1.3 J	0.29 J	1.7 J	0.67 J	1.5 J	2.1 J	0.81 J	1.7 J	0.94 J	1.1 J	1.5 J
Nov-2011				0.02	0.89 J	0.49 J	1.5 J	0.88 J	1.1 J	7.1 J	1.7 J	0.93 J	0.69 J	0.05 J	0.18 J	0.09 J	0.53 J	0.82 J	0.59 J	0.17 J	0.46 J	0.30 J	ND
May-2012				0.06	0.87 J	1.3 J	0.91 J	0.85 J	1.8 J	3.4 J	2.2 J	1.9 J	1.1 J	0.11 J	0.37 J	0.50 J	0.87 J	0.77 J	1.9 J	2.3 J	1.2 J	0.34 J	0.42 J
Nov-2012				0.06	1.0 J	1.3 J	1.6 J	1.4 J	0.88 J	4.2 J	1.2 J	1.9 J	1.4 J	0.50 J	0.64 J	0.70 J	0.91 J	1.0 J	0.57 J	2.1 J	0.36 J	0.58 J	1.2 J
May-2013				0.06	0.96 J	1.6 J	0.77 J	1.0 J	0.61 J	4.8 J	1.8 J	1.9 J	1.3 J	0.35 J	0.68 J	1.4 J	1.5 J	0.63 J	1.8 J	1.3 J	1.4 J	1.1 J	DRY
May-2014				0.06	1.0 J	0.80 J	1.1 J	0.54 J	0.31 J	4.0 J	0.52 J	1.7 J	2.0 J	0.67 J	0.38 J	0.37 J	0.63 J	1.0 J	1.8 J	2.4 J	0.46 J	0.40 J	DRY
Nov-2014				0.10	0.94 J	2.0 J	1.5 J	0.74 J	5.5 J	NS	0.61 J	4.8 J	1.2 J	0.51 J	0.76 J	0.96 J	1.2 J	0.40 J	1.1 J	0.46 J	0.37 J	0.41 J	DRY
May-2015				0.02	0.60 J	0.36 J	0.56 J	0.12 J	0.91 J	3.5 J	0.84 J	1.6 J	0.66 J	0.23 J	0.27 J	0.90 J	0.35 J	0.60 J	0.55 J	0.80 J	0.62 J	0.72 J	0.60 J
Nov-2015				0.02	1.6 J	2.7 J	2.3 J	1.3 J	1.0 J	4.9 J	1.9 J	5.6 J	0.71 J	0.46 J	0.75 J	1.1 J	1.5 J	2.0 J	3.6 J	0.66 J	0.87 J	0.72 J	0.74 J

Parameter : Lead CAS No. 7439-92-1

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	15	25		1.3 J	ND	0.1 J		7.2 J	0.4 J	5.9 J	0.3 J	0.3 J							NS	1.6 J	0.2 J	
May-2008				0.32	1.6 J	0.5 J	ND		4.8 J	0.4 J	0.5 J	0.7 J	0.2 J							25	0.7 J	0.3 J	
Nov-2008					2.8 J	0.4 J	0.1 J		3.4 J	0.6 J	0.4 J	0.3 J	0.2 J							ND	14 J	0.9 J	
May-2009				0.04	3.7 J	0.5 J	ND		11.0	0.2 J	0.3 J	0.1 J	0.1 J							23	0.5 J	0.2 J	
Jan-2010				0.04	0.8 J	3.9 J	0.1 J	0.2 J	14.0	1.5 J	0.5 J	0.1 J	0.4 J	1.8 J	1.4 J	0.2 J	0.4 J	3.2 J	21	8.0 J	0.3 J	0.6 J	0.3 J
May-2010				0.01	3.0 J	1.1 J	0.1 J	ND	6.3 J	0.7 J	0.2 J	0.1 J	0.4 J	0.1 J	2.0 J	0.2 J	1.1 J	1.8 J	1.5 J	0.9 J	0.5 J	0.6 J	1.6 J
Nov-2010				0.01	2.0 J	0.5 J	0.1 J	0.2 J	6.4 J	3.9 J	0.3 J	0.2 J	0.4 J	ND	1.1 J	0.2 J	1.9 J	3.1 J	2.2 J	1 J	0.1 J	0.5 J	0.2 J
May-2011				0.02	0.6 J	0.92 J	0.16 J	0.15 J	4.8 J	3.0 J	0.18 J	0.12 J	0.13 J	0.16 J	1.2 J	0.1 J	0.83 J	0.8 J	4.4 J	4.3 J	0.5 J	0.28 J	5.7 J
Nov-2011				0.02	1.7 J	0.68 J	0.42 J	0.17 J	7.3 J	2.1 J	0.24 J	0.29 J	1.2 J	0.16 J	1.9 J	0.12 J	0.64 J	0.93 J	3.2 J	0.95 J	0.79 J	1.1 J	0.29 J
May-2012				0.08	1.1 J	1.3 J	0.22 J	0.25 J	7.6 J	3.5 J	0.39 J	0.33 J	0.20 J	ND	0.74 J	0.09 J	0.90 J	1.0 J	11.0	7.0 J	2.1 J	0.46 J	1.3 J
Nov-2012				0.08	1.1 J	0.64 J	0.31 J	0.35 J	3.1 J	1.4 J	0.55 J	0.20 J	0.19 J	0.12 J	0.43 J	0.49 J	0.65 J	1.5 J	7.9 J	0.45 J	0.43 J	0.11 J	1.3 J
May-2013				0.02	0.14 J	0.55 J	0.03 J	0.04 J	0.29 J	1.5 J	0.05 J	0.08 J	0.06 J	0.12 J	0.23 J	0.53 J	0.07 J	0.93 J	0.75 J	1.6 J	1.2 J	3.0 J	DRY
May-2014				0.02	0.11 J	0.19 J	0.16 J	0.06 J	0.74 J	0.51 J	0.04 J	0.14 J	0.19 J	0.07 J	0.10 J	0.04 J	0.02 U	0.40 J	0.42 J	5.2 J	0.39 J	1.2 J	DRY
Nov-2014				0.13	0.18 J	83	0.13 U	0.13 U	0.31 J	NS	0.13 U	0.22 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.52 J	1.4 J	0.30 J	0.21 J	0.78 J	DRY
May-2015				0.03	0.34 J	0.27 J	0.16 J	0.06 J	3.8 J	3.9 J	0.09 J	0.25 J	0.39 J	0.03 U	0.05 J	0.10 J	0.03 U	0.11 J	0.56 J	0.69 J	0.53 J	2.5 J	0.84 J
Nov-2015				0.03	0.26 J	2.6 J	0.09 J	0.28 J	2.0 J	0.65 J	0.19 J	0.35 J	0.16 J	0.16 J	0.11 J	0.09 J	0.19 J	1.0 J	13	0.38 J	0.46 J	1 J	0.68 J

Table 4

Historical Groundwater and Surface Water Quality Data

Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Nickel CAS No. 7440-02-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	50	100	88		3.3 J	3.6 J	5.9 J		2.7 J	9.1 J	9.1 J	7.5 J	5.3 J							NS	2.9 J	0.7 J	
May-2008				0.06	5.2 J	2.1 J	0.5 J		2.3 J	4.3 J	3.2 J	2.0 J	7.8 J							3.5 J	1.4 J	0.8 J	
Nov-2008					4 J	6 J	7.1 J		1.7 J	3.4 J	6.1 J	4.6 J	4.7 J							ND	4.2 J	1.3 J	
May-2009				0.04	2.1 J	1.8 J	5.4 J		1.2 J	2.5 J	1.0 J	0.9 J	3.3 J							1.9 J	0.2 J	0.4 J	
Jan-2010				0.04	1.7 J	3.1 J	5.8 J	2.6 J	2.1 J	4.8 J	1.1 J	0.6 J	5.1 J	2.5 J	0.8 J	2.2 J	0.9 J	1.6 J	1.0 J	1.3 J	0.9 J	0.8 J	0.6 J
May-2010				0.05	3.2 J	1.7 J	10.8 J	1.5 J	2.0 J	7.1 J	7.5 J	10.4 J	9.2 J	2.0 J	1.5 J	1.8 J	0.9 J	1.7 J	1.1 J	0.4 J	1.2 J	0.8 J	0.8 J
Nov-2010				0.05	3.9 J	6.2 J	12.1 J	6.4 J	2.1 J	16.8 J	5.7 J	1.7 J	9.1 J	1.8 J	4.1 J	1.6 J	4.1 J	2.2 J	1.9 J	0.7 J	1.6 J	0.8 J	0.8 J
May-2011				0.04	1.2 J	3.1 J	3.3 J	1.6 J	1.4 J	5.5 J	2 J	2.3 J	5.2 J	0.77 J	1.1 J	1.2 J	6.8 J	2.1 J	0.86 J	1.3 J	1.8 J	1.1 J	1.5 J
Nov-2011				0.04	1.4 J	1.2 J	4.3 J	3.6 J	1.8 J	6.9 J	2.7 J	1.5 J	5.4 J	0.78 J	1.3 J	1.2 J	7.6 J	1.3 J	2 J	0.88 J	0.99 J	0.76 J	0.55 J
May-2012				0.06	2.6 J	4.4 J	3.6 J	4.8 J	1.7 J	4.7 J	2.9 J	4.3 J	7.2 J	0.23 J	2.3 J	3.4 J	5.6 J	3.4 J	5.2 J	3.8 J	2.9 J	5.0 J	6.1 J
Nov-2012				0.06	2.6 J	6.6 J	5.8 J	8.8 J	1.8 J	5.4 J	1.4 J	2.5 J	8.6 J	1.3 J	1.6 J	2.3 J	7.3 J	1.7 J	1.9 J	0.46 J	0.46 J	0.78 J	1.1 J
May-2013				0.45	1.8 J	4.6 J	3.5 J	5.0 J	1.8 J	5.6 J	4.3 J	5.5 J	9.3 J	0.98 J	1.5 J	2.4 J	4.8 J	0.84 J	4.4 J	0.97 J	0.65 J	0.47 J	DRY
May-2014				0.45	1.3 J	1.6 J	3.1 J	1.5 J	0.87 J	2.2 J	0.71 J	3.5 J	7.8 J	1.3 J	1.0 J	2.7 J	5.9 J	1.2 J	1.6 J	0.98 J	0.89 J	0.45 U	DRY
Nov-2014				0.12	2.6 J	5.9 J	5.7 J	6.7 J	1.5 J	NS	3.1 J	6.0 J	8.4 J	1.2 J	1.8 J	4.5 J	6.7 J	1.1 J	6.9 J	1.2 J	1.4 J	0.53 J	DRY
May-2015				0.01	1.6 J	0.57 J	2.3 J	0.43 J	2.0 J	6.4 J	1.7 J	6.8 J	4.4 J	0.87 J	1.20 J	3.20 J	4.90 J	1.40 J	1.60 J	0.67 J	0.70 J	0.60 J	0.74 J
Nov-2015				0.01	2.9 J	1.3 J	5.7 J	9.7 J	2.5 J	10.1 J	2.3 J	5.4 J	2.5 J	1.9 J	1.7 J	4.1 J	2.3 J	2.5 J	4.1 J	0.80 J	0.74 J	0.88 J	0.75 J

Parameter : Selenium CAS No. 7782-49-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	20	5		1.9 J	2.3 J	5.6 J		ND	2.3 J	7.9 J	6.0 J	4.7 J							NS	2.2 J	ND	
May-2008				0.51	1.9 J	1.2 J	0.3 J		0.9 J	2.5 J	1.7 J	1.7 J	5.9 J							1.3 J	0.9 J	0.2 J	
Nov-2008					1.6 J	4.8 J	9.8 J		ND	1.2 J	5.3 J	5.9 J	3.5 J							ND	3.0 J	0.3 J	
May-2009				0.12	5.2 J	2.5 J	8.2 J		0.5 J	1.5 J	0.5 J	0.8 J	2.2 J							0.8 J	ND	ND	
Jan-2010				0.12	5.2 J	1.9 J	ND	2.7 J	0.2 J	5.0 J	2.0 J	0.2 J	3.0 J	ND	0.2 J	ND	0.2 J	0.5 J	0.4 J	ND	ND	ND	ND
May-2010				0.32	1.0 J	3.5 J	11	1.0 J	1.1 J	7.3 J	7.5 J	9.8 J	4.4 J	ND	0.6 J	ND	ND	ND	ND	ND	0.7 J	ND	ND
Nov-2010				0.32	1.8 J	ND	ND	8.8 J	0.7 J	ND	7.2 J	1.1 J	4.7 J	ND	ND	ND	1.3 J	0.8 J	ND	ND	0.6 J	ND	ND
May-2011				0.20	0.46 J	ND	3.5 J	1.1 J	0.73 J	4.9 J	1.3 J	3 J	3.0 J	ND	1.1 J	ND	1.7 J	0.38 J	0.44 J	0.3 J	0.22 J	0.64 J	0.33 J
Nov-2011				0.20	1.2 J	1.3 J	6.6 J	2.3 J	0.61 J	5.9 J	1.6 J	1.1 J	1.9 J	ND	0.62 J	ND	2.5 J	0.78 J	0.33 J	0.20 J	0.29 J	0.21 J	ND
May-2012				0.17	1.7 J	13	3.8 J	4.3 J	1.6 J	5.0 J	1.5 J	4.3 J	4.5 J	ND	0.93 J	0.72 J	3.7 J	0.64 J	1.4 J	0.41 J	0.57 J	ND	ND
Nov-2012				0.17	1.2 J	15	0.3 J	11.0	1.2 J	4.3 J	0.64 J	1.9 J	6.9 J	0.21 J	2.1 J	1.1 J	4.1 J	1.0 J	0.94 J	0.17 J	0.30 J	0.26 J	ND
May-2013				0.06	1.6 J	14	5.4 J	4.9 J	1.1 J	4.4 J	2.7 J	9.9 J	6.8 J	0.08 J	1.7 J	1.1 J	5.7 J	0.83 J	5.5 J	0.39 J	0.38 J	0 19 J	DRY
May-2014				0.06	0.06 U	0.38 J	2.9 J	0.06 U	0.06 U	0.06 U	0.06 U	3.4 J	4.9 J	0.06 U	0.06 U	0.06 U	1.3 J	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U	DRY
Nov-2014				0.16/0.44	3.0 J	0.16 U	0.16 U	7.2 J	2.6 J	NS	1.7 J	0.44 U	0.16 U	0.44 U	1.8 J	0.44 U	0.44 U	0.62 J	0.16 U	0.16 U	0.16 U	0.16 U	DRY
May-2015				0.22/0.53	0.35 J	0.22 U	9.4 J	0.53 U	1.4 J	0.53 U	0.46 J	0.53 U	4.3 J	0.22 U	1.10 J	1.40 J	3.40 J	0.59 J	0.28 J	0.22 U	0.29 J	0.22 U	0.22 U
Nov-2015				0.22/0.53	0.23 J	0.26 J	0.79 J	0.22 U	1.8 J	10	0.81 J	9.6 J	1.7 J	0.22 U	2.5 J	0.91 J	0.91 J	0.63 J	0.22 U	0.46 J	0.22 U	0.22 U	0.22 U

Parameter : Silver CAS No. 7440-22-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	20	0.06		ND	ND	ND		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.04	0.2 J	0.1 J	ND		0.1 J	0.1 J	0.1 J	ND	ND							0.1 J	ND	0.1 J	
Nov-2008					ND	ND	0.1 J		ND	0.1 J	ND	0.1 J	ND							0.1 J	0.1 J	ND	
May-2009				0.04	ND	ND	ND		0.1 J	ND	ND	ND	ND							0.1 J	0.1 J	ND	
Jan-2010				0.04	0.1 J	0.2 J	0.2 J	0.1 J	0.1 J	0.1 J	0.1 J	0.3 J	0.3 J	0.1 J	0.1 J	ND	0.1 J	0.1 J	0.1 J	0.2 J	0.1 J	0.2 J	0.1 J
May-2010				0.03	0.1 J	ND	0.1 J	ND	0.1 J	0.1 J	ND	ND	0.1 J	ND	ND	0.1 J	ND	ND	ND	ND	0.1 J	ND	ND
Nov-2010				0.03	ND	ND	ND	ND	ND	0.1 J	0.1 J	0.1 J	0.1 J	ND	ND	ND	0.1 J	ND	ND	ND	ND	ND	ND
May-2011				0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04 J	ND
Nov-2011				0.02	ND	ND	0.04 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.03	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	DRY
Nov-2014				0.04	0.04 U	0.04 U	0.04 U	0.04 U	0.06 J	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 J	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	DRY
May-2015				0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.02 J	0.02 J	0.01 U	0.02 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nov-2015				0.01	0.01 U	0.01 U	0.01 U	0.03 J	0.02 J	0.03 J	0.01 J	0.01 U	0.02 J	0.01 U	0.01 U	0.01 U	0.03 J	0.01 U	0.02 J	0.01 U	0.01 U	0.01 U	0.03 J

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Thallium CAS No. 7440-28-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	5.5	0.2	0.47		ND	0.2 J	ND		ND	ND	0.2 J	ND	ND							NS	ND	ND	
May-2008				0.63	0.1 J	0.1 J	ND		0.1 J	0.1 J	0.2 J	0.1 J	ND							0.2 J	ND	ND	
Nov-2008					ND	0.1 J	ND		ND	ND	0.1 J	0.1 J	ND							ND	0.1 J	ND	
May-2009				0.03	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.03	0.1 J	ND	ND	0.1 J	0.1 J	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1 J	0.1 J	0.1 J	ND
May-2010				0.05	ND	ND	ND	ND	0.1 J	ND	ND	0.5 J	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.05	ND	0.1 J	ND	ND	0.1 J	0.5 J	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.02	ND	0.1 J	ND	ND	0.03 J	0.07 J	0.9 J	0.24 J	ND	ND	0.05 J	ND	0.08 J	0.04 J	0.04 J	0.05 J	ND	ND	0.09 J
Nov-2011				0.02	ND	0.07 J	0.24 J	0.14 J	0.05 J	0.16 J	0.08 J	0.08 J	ND	0.08 J	0.05 J	0.12 J	0.04 J	0.07 J	0.05 J	ND	ND	0.12 J	0.09 J
May-2012				0.07	0.35 J	0.22 J	ND	0.10 J	ND	ND	0.10 J	0.26 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.07	ND	0.10 J	ND	0.13 J	ND	ND	ND	0.29 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.02	0.04 J	0.07 J	ND	0.08 J	ND	0.07 J	0.10 J	0.20 J	0.06 J	ND	ND	0.14 J	ND	ND	0.30 J	0.05 J	ND	0.06 J	DRY
May-2014				0.02	0.02 U	0.07 J	0.02 U	0.06 J	0.02 U	0.02 J	0.02 U	0.26 J	0.03 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.13 J	0.02 J	0.02 U	0.02 U	DRY
Nov-2014				0.13	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	NS	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.15 J	0.13 U	0.13 U	0.13 U	DRY
May-2015				0.02	0.02 U	0.06 J	0.02 U	0.02 U	0.05 J	0.07 J	0.10 J	0.10 J	0.06 J	0.02 U	0.02 U	0.30 J	0.02 U	0.03 J	0.02 J	0.03 J	0.02 J	0.03 J	0.04 J
Nov-2015				0.02	0.02 U	0.07 J	0.02 U	0.16 J	0.05 J	0.09 J	0.06 J	0.04 J	0.18 J	0.02 U	0.02 U	0.03 J	0.07 J	0.06 J	0.13 J	0.02 U	0.02 U	0.04 J	0.07 J

Parameter : Tin CAS No. 7440-31-5

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Jan-2010	100	2,000	800	0.08	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2010				0.11	NA	NA	1.5 J	3.9 J	NA	NA	NA	NA	0.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2010				0.11	NA	NA	0.5 J	0.6 J	NA	NA	NA	NA	0.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2011				0.16	NA	NA	0.23 J	0.32 J	NA	NA	NA	NA	0.95 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2011				0.16	NA	NA	0.26 J	0.47 J	NA	NA	NA	NA	0.24 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2012				0.10	NA	NA	0.15 J	0.24 J	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2012				0.10	ND	NA	0.13 J	0.28 J	NA	NA	NA	NA	0.92 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2013				0.06	ND	NA	0.24 J	0.20 J	NA	NA	NA	NA	0.08 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	DRY
May-2014				0.06	0.06 U	NA	0.06 U	0.06 J	NA	NA	NA	NA	0.06 U	NA	NA	NA	0.06 U	NA	NA	NA	NA	NA	DRY
Nov-2014				0.05	0.05 U	NA	0.96 J	0.05 U	NA	NS	NA	NA	0.22 J	NA	NA	NA	0.18 J	NA	NA	NA	NA	NA	DRY
May-2015				0.06	0.06 U	NA	0.13 J	0.06 U	NA	NA	NA	NA	0.06 J	NA	NA	NA	0.12 J	NA	NA	NA	NA	NA	NA
Nov-2015				0.06	0.06 U	NA	0.14 J	0.35 J	NA	NA	NA	NA	0.20 J	NA	NA	NA	0.35 J	NA	NA	NA	NA	NA	NA

Parameter : Vanadium CAS No. 7440-62-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	25	0.3	NE		1.5 J	0.9 J	1.7 J		6.9 J	1.6 J	17 J	2.5 J	1.4 J							NS	2.0 J	0.7 J	
May-2008				0.07	0.8 J	ND	ND		3.4 J	1.2 J	4.6 J	3.1 J	1.0 J							40	1.4 J	0.8 J	
Nov-2008					2.6 J	1.3 J	1.5 J		3.1 J	1.8 J	4.2 J	1.3 J	0.8 J							ND	9.2 J	1.2 J	
May-2009				0.28	3.5 J	1.8 J	2.7 J		10.0 J	1.6 J	7.5 J	1.8 J	1.3 J							30	2.3 J	1.9 J	
Jan-2010				0.28	1 J	3.5 J	2.3 J	2.1 J	11.4 J	5.1 J	11.6 J	0.8 J	0.9 J	4.9 J	4.5 J	1.3 J	2.4 J	4.9 J	35	18.9 J	0.8 J	0.9 J	0.6 J
May-2010				0.03	3.8 J	2.1 J	2 J	0.8 J	8.3 J	2.3 J	5.8 J	1.3 J	1.6 J	0.6 J	3.2 J	1.0 J	3.7 J	2.4 J	3.3 J	2.0 J	1.5 J	1.4 J	3.0 J
Nov-2010				0.03	3.3 J	0.6 J	2.6 J	1.6 J	9.4 J	3.2 J	4.4 J	1.1 J	1.9 J	0.9 J	1.9 J	0.6 J	4.4 J	3.6 J	8.5 J	3.1 J	1.1 J	0.9 J	0.9 J
May-2011				0.14	1.2 J	0.94 J	1.4 J	0.69 J	7.5 J	4.3 J	3.9 J	0.75 J	0.76 J	1.2 J	3.1 J	0.54 J	2.9 J	1.0 J	11.8 J	6.8 J	0.86 J	0.93 J	7.2 J
Nov-2011				0.14	2.5 J	0.75 J	3 J	0.88 J	8.5 J	2.4 J	3.3 J	1.2 J	4.1 J	1.3 J	9.2 J	0.55 J	4.8 J	1.4 J	8.4 J	2.2 J	3.4 J	1.1 J	0.88 J
May-2012				0.10	1.7 J	2.0 J	1.4 J	2.0 J	7.2 J	5.6 J	3.0 J	1.3 J	1.3 J	0.96 J	5.9 J	0.78 J	6.9 J	2.2 J	31.0	9.5 J	2.5 J	1.0 J	3.0 J
Nov-2012				0.10	1.2 J	1.7 J	1.8 J	1.6 J	5.8 J	2.0 J	4.7 J	0.52 J	1.2 J	0.25 J	4.1 J	0.44 J	6.4 J	3.0 J	22.7 J	1.5 J	0.83 J	0.67 J	2.3 J
May-2013				0.07	1.0 J	0.62 J	1.9 J	0.39 J	3.3 J	3.5 J	1.5 J	1.3 J	1.3 J	0.07 J	4.6 J	0.35 J	7.8 J	2.0 J	8.2 J	3.1 J	1.5 J	3.4 J	DRY
May-2014				0.07	0.16 J	0.07 U	1.3 J	0.07 U	3.2 J	1.1 J	0.34 J	1.3 J	1.0 J	0.07 U	2.9 J	0.07 U	4.1 J	1.4 J	1.4 J	6.0 J	0.48 J	1.2 J	DRY
Nov-2014				0.06	0.96 J	2.3 J	2.5 J	0.14 J	0.44 J	NS	1.2 J	1.3 J	1.1 J	0.48 J	4.4 J	0.34 J	11.0 J	1.3 J	4.3 J	0.30 J	0.06 U	1.3 J	DRY
May-2015				0.22	1.0 J	0.59 J	2.2 J	0.46 J	6.3 J	5.5 J	1.1 J	2.9 J	0.94 J	0.22 U	4.90 J	0.22 U	5.10 J	1.20 J	1.60 J	1.1 J	0.94 J	2.5 J	1.1 J
Nov-2015				0.22	2.3 J	2.8 J	3.2 J	1.5 J	5.3 J	1.2 J	4.1 J	1.9 J	1.2 J	0.91 J	5.3 J	0.54 J	3.2 J	5.8 J	27	1.3 J	0.84 J	1.7 J	1.5 J

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Zinc CAS No. 7440-66-6

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	10	1,000	50		7.9 J	3.3 J	8 J		16	5.9 J	20	3.4 J	5.1 J							NS	24	71	
May-2008				0.04	4.5 J	1.9 J	1.6 J		7.8 J	4.1 J	3.0 J	3.4 J	2.7 J							43	7.8 J	19	
Nov-2008					5.1 J	2.4 J	3.3 J		5.3 J	3.9 J	3.6 J	3.0 J	1.7 J							ND	96	36	
May-2009				0.14	9.4 J	5 J	5.9 J		12	3.3 J	2.5 J	2.8 J	3.2 J							21	4.8 J	18	
Jan-2010				0.14	2.2 J	3 J	1.3 J	3.1 J	16	4.8 J	3.9 J	1.5 J	3.1 J	7.5 J	2.6 J	2.9 J	2.8 J	8.5 J	4.7 J	15	8.1 J	14	8.8 J
May-2010				0.08	2.2 J	5.8 J	2.3 J	2.9 J	8.5 J	4.3 J	3.3 J	3.8 J	6.3 J	1.5 J	4.0 J	2.0 J	1.1 J	7.5 J	1.2 J	2.3 J	5.3 J	11	3.0 J
Nov-2010				0.08	5.6 J	3.5 J	3.4 J	4.1 J	8.1 J	14	4.5 J	4.3 J	5.4 J	2.6 J	2.1 J	3.2 J	3.1 J	8.5 J	2.6 J	5.6 J	6.8 J	17	3.9 J
May-2011				0.24	2.6 J	3.1 J	3.6 J	3.2 J	6.1 J	7.4 J	1.8 J	2.4 J	5.4 J	3.2 J	3.5 J	2.1 J	3.5 J	32.0	2.6 J	9.6 J	12	5.8 J	9.4 J
Nov-2011				0.24	3.2 J	2.0 J	2.7 J	4.7 J	9.4 J	7.7 J	3.3 J	1.8 J	5.3 J	2.3 J	1.7 J	1.9 J	1.8 J	3.2 J	4.7 J	1.9 J	8.2 J	16	2.4 J
May-2012				0.48	1.4 J	2.0 J	0.72 J	5.7 J	4.7 J	6.6 J	0.91 J	0.66 J	3.2 J	0.66 J	ND	1.7 J	ND	8.1 J	6.2 J	6.4 J	18	6.0 J	0.70 J
Nov-2012				0.48	4.7 J	4.6 J	7.6 J	8.4 J	6.7 J	5.8 J	4.9 J	4.6 J	5.5 J	4.4 J	3.1 J	6.4 J	4.1 J	3.3 J	4.6 J	4.8 J	6.5 J	8.2 J	11.0
May-2013				0.47	0.76 J	2.4 J	1.2 J	3.8 J	1.6 J	6.1 J	0.91 J	1.0 J	2.9 J	3.7 J	2.1 J	3.8 J	1.9 J	3.5 J	5.6 J	4.1 J	5.2 J	6.8 J	DRY
May-2014				0.47	0.88 J	1.1 J	2.6 J	1.4 J	1.8 J	2.0 J	0.84 J	1.9 J	3.4 J	3.4 J	1.3 J	1.3 J	2.0 J	2.4 J	2.6 J	9.9 J	2.3 J	2.7 J	DRY
Nov-2014				0.53	1.2 J	3.2 J	2.4 J	3.0 J	50	NS	0.54 J	1.4 J	2.8 J	1.3 J	1.4 J	3.1 J	1.9 J	4.6 J	5.7 J	3.7 J	2.0 J	5.7 J	DRY
May-2015				0.20	3.3 J	0.37 J	0.94 J	0.27 J	8.3 J	15	2.5 J	2.5 J	1.5 J	2.0 J	1.10 J	3.0 J	13.0	1.30 J	16.0	2.9 J	3.0 J	6.4 J	5.2 J
Nov-2015				0.20	1.7 J	3.2 J	1.7 J	6.9 J	5.9 J	6.6 J	6.2 J	6.1 J	1.3 J	4.8 J	2.8 J	4.5 J	6.0 J	3.6 J	35	4.7 J	4.8 J	9.4 J	9.8 J

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Acetone CAS No. 67-64-1

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	100	6,000	2,000		ND	**2.2 J**	**3.3 J**		ND	ND	**2.7 J**	**1.7 J**	**2.3 J**							NS	**2.3 J**	**2.2 J**	
May-2008				1.21	**3.3 J**	**2.7 J**	**5.6 J**		**3.10 J**	**4.10 J**	**4.50 J**	**3.40 J**	**4.50 J**							**4.50 J**	**5.50 J**	**3.80 J**	
Nov-2008					**1.7 J**	**3.4 J**	**4.5 J**		**1.3 J**	**1.5 J**	**2.7 J**	**2.4 J**	**2.8 J**							ND	**3.7 J**	**5.3 J**	
May-2009				1.21	**3 J**	ND	**2.1 J**		ND	ND	ND	ND	ND							ND	**1.3 J**	ND	
Jan-2010				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**29 J**	ND	ND	ND	ND	ND	ND
May-2011				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2011				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10.10 J**	ND	ND	ND	ND	ND	ND
May-2012				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				9.06	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	DRY
Nov-2014				9.06	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	NS	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	**12.50 J**	9.06 U	9.06 U	DRY
May-2015				9.06	9.06 U	9.06 U	**9.10 J**	9.06 U	9.06 U	**22.0 J**	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	**16.40 J**	9.06 U	9.06 U	9.06 U	**9.20 J**	9.06 U	9.06 U
Nov-2015				9.06	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U	9.06 U

Parameter : Benzene CAS No. 71-43-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	1	51		ND	NA	**1.0**		ND	ND	**0.2 J**	**0.3 J**	**0.7 J**							NS	ND	ND	
May-2008				0.16	ND	ND	**1.1**		ND	ND	ND	ND	**0.50 J**							ND	ND	ND	
Nov-2008					ND	ND	**2.1**		ND	ND	ND	ND	**0.5 J**							ND	ND	ND	
May-2009				0.16	ND	ND	**1.5**		ND	ND	ND	ND	**0.3 J**							ND	ND	ND	
Jan-2010				0.24	ND	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.24	ND	ND	**3.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.24	**0.6 J**	ND	**2.1**	**0.90 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.24	**0.3 J**	ND	**1.0**	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2011				0.24	ND	ND	**1.1**	**0.60 J**	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	**0.30 J**	ND	ND	ND	ND	ND	ND
May-2012				0.24	ND	ND	**1.0**	**0.60 J**	ND	ND	ND	ND	**1.10**	ND	ND	ND	**1.20**	ND	ND	ND	ND	ND	ND
Nov-2012				0.24	ND	**0.6 J**	**1.2**	**0.70 J**	ND	ND	ND	ND	**1.60**	ND	ND	ND	**0.70 J**	ND	ND	ND	ND	ND	ND
May-2013				0.24	ND	ND	ND	**0.30 J**	ND	ND	ND	ND	ND	ND	ND	ND	**1.10**	ND	**0.40 J**	ND	ND	ND	DRY
May-2014				0.24	0.24 U	0.24 U	**1.10**	0.24 U	0.24 U	0.24 U	0.24 U	**0.30 J**	**1.90**	0.24 U	0.24 U	0.24 U	**0.40 J**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	DRY
Nov-2014				0.24	0.24 U	**0.60 J**	**2.10**	**0.50 J**	0.24 U	NS	0.24 U	**0.30 J**	**0.80 J**	0.24 U	0.24 U	0.24 U	**1.10**	0.24 U	**0.50 J**	0.24 U	0.24 U	0.24 U	DRY
May-2015				0.24	0.24 U	0.24 U	**1.50**	0.24 U	0.24 U	0.24 U	0.24 U	**0.60 J**	0.24 U	0.24 U	0.24 U	0.24 U	**0.50 J**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Nov-2015				0.24	0.24 U	0.24 U	**1.70**	**1.70**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

Parameter : 2-Butanone CAS No. 78-93-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2015	100	4,000	160,000	2.21	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	**4.20 J**	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U
Nov-2015				2.21	2.21 U	2.21 U	2.21 U	2.21 U	**17.70 J**	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U	2.21 U

Parameter : Carbon Disulfide CAS No. 75-15-0

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2015	100	700	NE (LD)	0.23	**0.40 J**	**0.30 J**	0.23 U	0.23 U	**0.50 J**	**0.40 J**	**0.30 J**	0.23 U	0.23 U	**0.40 J**	0.23 U	**0.30 J**	**1.30 J**	0.23 U	**0.50 J**	0.23 U	0.23 U	0.23 U	0.23 U
Nov-2015				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	**0.30 J**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Cis-1,2-Dichloroethene CAS No. 156-59-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	5	70	720		ND	ND	**0.2 J**		ND	ND	ND	ND	**0.20 J**							NS	ND	ND	
May-2008				0.14	ND	ND	**0.2 J**		ND	ND	ND	ND	**0.20 J**							ND	ND	ND	
Nov-2008					**1.0 J**	**1.4 J**	**1.3 J**		ND	ND	ND	ND	**0.20 J**							ND	ND	**1.6 J**	
May-2009				0.14	ND	ND	**0.2 J**		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.25	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.25	ND	ND	**0.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.25	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.25	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	**0.60 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.20 J**	ND	ND	ND	ND	ND	ND
May-2012				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.50**	ND	ND	ND	ND	ND	ND
Nov-2012				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.10 J**	ND	ND	ND	ND	ND	ND
May-2013				0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.90**	ND	**1.40 J**	ND	ND	ND	DRY
May-2014				0.25	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	**0.70 J**	0.25 U	**0.30 J**	0.25 U	0.25 U	0.25 U	DRY
Nov-2014				0.25	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NS	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	**1.70 J**	0.25 U	**1.60 J**	0.25 U	0.25 U	0.25 U	DRY
May-2015				0.25	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	**0.30 J**	**0.50 J**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Nov-2015				0.25	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

Parameter : Chlorobenzene CAS No. 108-90-7

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2014	3.0	50	140	0.30	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	DRY
Nov-2014				0.30	0.30 U	0.30 U	**0.30 J**	0.30 U	0.30 U	NS	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	DRY
May-2015				0.30	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Nov-2015				0.30	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

Parameter : Ethylbenzene CAS No. 100-41-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2014	1	600	97	0.21	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	DRY
Nov-2014				0.21	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	NS	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	**0.50 J**	0.21 U	**0.60 J**	0.21 U	0.21 U	0.21 U	DRY
May-2015				0.21	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Nov-2015				0.21	0.21 U	0.21 U	**0.80 J**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U

Parameter : Methylene Chloride CAS No. 75-09-2

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	5	590		ND	ND	**0.30 J**		ND	ND	ND	ND	**0.20 J**							NS	ND	ND	
May-2008				0.14	ND	**0.20 J**	**0.20 J**		**0.20 J**	**0.20 J**	**0.20 J**	**0.20 J**	**0.30 J**							**0.20 J**	**0.20 J**	**0.20 J**	
Nov-2008					ND	ND	ND		ND	ND	ND	ND	**0.20 J**							ND	ND	ND	
May-2009				0.14	ND	ND	**0.20 J**		ND	ND	ND	ND	**0.20 J**							ND	ND	ND	
Jan-2010				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11.2**	ND	ND	ND	ND	ND	ND
May-2011				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.90 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.64	ND	ND	**0.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.64	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	DRY
Nov-2014				0.64	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	NS	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	DRY
May-2015				0.64	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
Nov-2015				0.64	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Naphthalene CAS No. 91-20-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2014	10	6	12	0.47	0.47 U	NA	**2.90 J**	0.47 U	NA	NS	NA	NA	0.47 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA	DRY
May-2015				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2015				0.47	0.47 U	NA	0.47 U	0.47 U	NA	NA	NA	NA	0.47 U	NA	NA	NA	0.47 U	NA	NA	NA	NA	NA	NA

Parameter : Tetrachloroethene CAS No. 127-18-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	0.7	3.3		ND	NA	ND		ND	ND	ND	ND	ND							ND	ND	ND	
May-2008				0.16	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
May-2009				0.16	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.2 J**	ND	ND	ND	ND	ND	ND
May-2011				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.2 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2012				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.17	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	DRY
Nov-2014				0.17	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	NS	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	DRY
May-2015				0.17	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Nov-2015				1.17	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U

Parameter: Tetrahydrofuran CAS No. 109-99-9

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2011	NE	NE	NE	0.39	ND	**0.7 J**	**2.5**	ND	ND	**0.9 J**	**2.30**	**4.50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.6 J**	ND
Nov-2011				0.39	ND	ND	**6.7**	**3.30**	ND	ND	**1.90**	ND	**3.90**	ND	ND	ND	**4.20**	ND	**0.9 J**	ND	ND	ND	ND
May-2012				0.39	**1.80**	**2.40**	**4.4**	**5.10**	**1.40**	**1.70**	**2.70**	**6.40**	**5.20**	ND	ND	**18.40**	**2.50**	ND	**14.00**	ND	ND	ND	ND
Nov-2012				0.39	ND	**8.50**	**4.6**	**3.80**	ND	ND	ND	**1.20**	**5.50**	ND	ND	**6.20**	**10.90**	ND	**0.70 J**	ND	ND	ND	ND
May-2013				0.39	ND	ND	**5.6**	**2.40**	ND	ND	**4.40**	**20.90**	**5.40**	ND	ND	ND	**3.30**	ND	**7.40**	ND	ND	ND	DRY
May-2014				0.39	0.39 U	**1.0**	**6.5**	0.39 U	0.39 U	0.39 U	0.39 U	**10.8**	**10.2**	0.39 U	0.39 U	0.39 U	**5.50**	0.39 U	**0.80 J**	0.39 U	0.39 U	0.39 U	DRY
Nov-2014				0.39	0.39 U	**17.70**	**15.60**	**5.70**	0.39 U	NS	**3.40**	**7.10**	**7.70**	0.39 U	0.39 U	**2.70**	**10.00**	0.39 U	**17.30**	0.39 U	0.39 U	0.39 U	DRY
May-2015				0.39	0.39 U	0.39 U	**16.90**	0.39 U	**1.10**	0.39 U	**0.90 J**	**34.70**	**4.90**	0.39 U	0.39 U	**6.10**	**7.10**	0.39 U	**1.00**	0.39 U	0.39 U	0.39 U	0.39 U
Nov-2015				0.39	0.39 U	0.39 U	**20.90**	**8.60**	0.39 U	**0.50 J**	0.39 U	**1.60**	**2.60**	0.39 U	0.39 U	**2.50**	**1.80**	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter: Trichloroethene CAS No. 79-01-6

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	3	30		ND	NA	ND		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.13	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
May-2009				0.13	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.23	ND	ND	**0.30 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.70 J**	ND	ND	ND	ND	ND	ND
Nov-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	ND	ND	ND
Nov-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	DRY
May-2014				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	DRY
Nov-2014				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	NS	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	DRY
May-2015				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Nov-2015				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

Parameter: Toluene CAS No. 108-88-3

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	600	11		ND	NA	**0.20 J**		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.13	ND	ND	**0.30 J**		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	**0.40 J**		ND	ND	ND	ND	ND							ND	ND	**0.20 J**	
May-2009				0.13	ND	ND	**0.20 J**		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.30 J**	ND	ND	ND
May-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**
Nov-2011				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**	**0.40 J**	**0.40 J**
May-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.60 J**	ND	ND	**0.50 J**	ND	ND	ND
Nov-2012				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2013				0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.30 J**	**0.30 J**	**1.30**	ND	DRY
May-2014				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	**3.3**	**3.0**	0.23 U	DRY
Nov-2014				0.23	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	NS	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	**0.30 J**	0.23 U	0.23 U	0.23 U	**0.30 J**	0.23 U	DRY
May-2015				0.23	0.23 U	0.23 U	**0.30 J**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	**0.30 J**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Nov-2015				0.23	0.23 U	0.23 U	**0.40 J**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

Parameter: Vinyl Chloride CAS No. 75-01-4

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	1	0.03	2.4		ND	NA	**0.4 J**		ND	ND	ND	ND	ND							NS	ND	ND	
May-2008				0.34	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Nov-2008					ND	ND	**0.5 J**		ND	ND	ND	ND	ND							ND	ND	ND	
May-2009				0.34	ND	ND	ND		ND	ND	ND	ND	ND							ND	ND	ND	
Jan-2010				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2010				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2010				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2011				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov-2011				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May-2012				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.80 J**	ND	ND	ND	ND	ND	ND
Nov-2012				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.90**	ND	ND	ND	ND	ND	ND
May-2013				0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND	DRY
May-2014				0.63	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	**1.10**	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	DRY
Nov-2014				0.63	0.63 U	0.63 U	**2.00**	0.63 U	0.63 U	NS	0.63 U	0.63 U	**1.40**	0.63 U	0.63 U	0.63 U	**3.40**	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	DRY
May-2015				0.63	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	**1.70**	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Nov-2015				0.63	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	**0.80 J**	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter: Xylenes CAS No. 1330-20-7

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
May-2014	5	500	670	0.68	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	DRY
Nov-2014				0.68	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	NS	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	**0.90 J**	0.68 U	**0.90 J**	0.68 U	0.68 U	0.68 U	DRY
May-2015				0.68	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Nov-2015				0.68	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U

Parameter : Sulfide CAS No. 18496-25-8

Sample	Compliance Limit (µg/L)			MDL	Analytical Results (µg/L)																		
Date	SWSL	2L Standard	2B Standard		*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Jan-2010	1,000	NE	0.21	100	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2010				100	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2010				100	NA	NA	**1,380**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2011				100	NA	NA	**544 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2011				100	NA	NA	**2,795**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2012				100	NA	NA	**137 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-2012				100	NA	NA	**644 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
May-2013				100	ND	NA	**272 J**	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	DRY
May-2014				100	100 U	NA	**467 J**	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	**230 J**	NA	NA	NA	NA	NA	DRY
Nov-2014				100	100 U	NA	100 U	100 U	NA	NS	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	DRY
May-2015				100	**104 J**	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA
Nov-2015				100	100 U	NA	100 U	100 U	NA	NA	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA

Table 4
Historical Groundwater and Surface Water Quality Data
Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : pH (field)

Sample	Compliance Limit (S.U.)			Results (S.U. = Standard Units)																		
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	NE	6.5 - 8.5	6.0 - 9.0	6.4	6.5	6.7		6.0	6.5	7.1	6.8	6.5							NM	7.1	7.0	
May-2008				6.1	6.3	6.6		5.9	6.9	6.8	6.5	6.4							6.0	6.9	6.2	
Nov-2008				6.6	6.6	6.6																
May-2009				6.2	6.3	6.6		6.3	6.9	6.8	6.6	6.5							5.6	6.9	6.1	
Jan-2010				5.8	5.8	6.4	6.5	6.0	6.2	5.7	5.7	6.2	7.1	5.8	6.4	5.7	5.1	5.7	5.5	6.7	6.0	5.6
May-2010				6.7	5.8	6.5	6.9	6.2	6.7	6.6	6.5	6.3	7.4	7.2	7.3	7.0	5.3	7.2	6.0	6.8	6.8	6.7
Nov-2010				6.1	5.9	6.5	6.6	6.1	6.0	6.8	6.8	6.5	7.2	7.1	7.3	6.3	5.6	6.6	6.1	6.4	7.3	6.5
May-2011				6.1	5.9	6.5	6.6	6.0	6.6	6.7	6.3	6.4	7.3	6.7	7.2	6.4	5.9	5.7	6.0	6.7	6.8	6.5
Nov-2011				6.1	5.8	6.4	6.5	6.1	6.5	6.6	6.5	6.4	7.4	6.9	7.2	7.5	5.7	6.1	6.0	6.8	6.5	6.5
May-2012				6.2	5.9	6.4	6.4	6.0	6.7	6.6	6.3	6.3	7.2	6.5	6.7	6.2	5.8	6.1	5.9	6.6	6.6	6.3
Nov-2012				6.3	6.4	6.5	6.4	6.1	6.9	6.5	6.6	6.5	7.4	6.7	6.6	6.5	5.9	5.5	6.2	6.9	7.0	6.3
May-2013				6.0	5.9	6.5	6.5	6.0	7.0	6.6	6.7	7.0	7.4	6.5	6.9	6.4	5.6	5.2	6.2	6.7	6.1	DRY
May-2014				6.1	6.4	6.4	6.3	6.3	6.7	6.0	6.5	6.2	7.3	5.6	7.3	6.3	5.8	5.9	6.1	6.7	6.1	DRY
Nov-2014				6.6	6.6	6.6	6.5	6.2	NS	6.7	6.8	6.6	7.3	5.9	6.6	6.6	5.4	5.8	7.0	7.1	5.9	DRY
May-2015				6.3	5.4	6.6	6.3	6.7	7.1	6.4	6.8	6.3	7.4	5.6	6.1	6.4	6.1	6.2	6.8	6.9	6.8	7.1
Nov-2015				6.4	5.8	6.7	6.5	6.1	6.6	6.6	6.9	6.1	7.2	5.6	6.2	6.1	5.9	6.4	6.8	6.8	6.8	6.4

Parameter : Conductivity (field)

Sample	Compliance Limit (µS/cm)			Results (µS/cm = microsiemens per centimeter)																		
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	NE	NE	NE	821	912	1,399		332	905	1,711	1,395	1,602							168	879	123	
May-2008				1,116	426	1,553		398	873	553	502	1,333							189	245	147	
Nov-2008				992	1,441	1,802		433	824	1,601	1,263	1,330							NM	746	166	
May-2009				1,495	626	1,829		435	828	466	506	1,267							144	214	181	
Jan-2010				956	463	1,647	656	246	951	356	222	1,065	398	127	632	296	262	109	126	234	166	162
May-2010				916	380	3,105	475	515	1,587	1,802	2,129	1,619	411	356	577	421	171	408	114	285	188	171
Nov-2010				763	1,069	1,401	1,135	477	1,626	951	337	1,125	523	479	498	799	356	490	112	312	152	117
May-2011				674	1,494	1,954	567	607	2,290	1,159	1,247	1,816	411	889	600	1,522	422	369	129	183	412	149
Nov-2011				782	1,880	402	1,677	551	3,004	1,166	681	1,603	794	794	474	1,867	267	721	114	219	199	136
May-2012				918	1,990	1,553	1,746	930	1,569	1,111	1,471	1,546	397	943	844	1,861	385	1,157	123	348	160	107
Nov-2012				7,007	1,853	1,676	2,061	508	1,215	295	911	2,070	363	877	706	1,678	361	324	108	328	295	152
May-2013				501	1,404	1,223	1,330	480	1,294	1,198	2,520	3,090	356	1,140	864	1,612	271	1,519	124	237	71	DRY
May-2014				377	1,060	1,424	258	389	573	275	2,530	3,380	349	434	826	1,694	253	562	86	333	86	DRY
Nov-2014				871	2,880	2,870	2,400	397	NS	1,039	2,560	3,650	374	990	817	2,590	194	2,190	281	306	160	DRY
May-2015				401	135	2,210	121	671	1,385	770	2,960	1,212	360	487	1,023	1,266	367	230	218	229	91	160
Nov-2015				507	394	3,010	1,978	514	1,503	400	1,621	665	365	630	743	577	415	138	292	153	191	127

Parameter : Turbidity (field)

Sample	Compliance Limit (NTU)			Results (NTU = Nephelometric Turbidity Units)																		
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*	*SW-1*	*SW-2*	*SW-3*	*SW-4*
Nov-2007	NE	NE	50	36	28			370	190	280	360	170										
May-2008				70	9.6	<1		100	200	25	230	220							NM	NM	NM	
Nov-2008				80	60	300													NM	NM	NM	
May-2009				280	34	230		120	17	20	65	55							NM	NM	NM	
Jan-2010				150	47	<1	55	300	110	17	35	135	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2010				80	35	330	18	130	40	35	65	140	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nov-2010				38	19	190	45	170	25	15	25	60	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2011				18	24	270	95	110	200	14	34	330	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nov-2011				31	17	170	140	150	20	16	25	320	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2012				14	75	280	80	33	190	11	35	450	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Nov-2012				18	150	400	360	70	23	23	7.5	400	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
May-2013				8	7	2	6	17	6	6	5	4	NM	NM	NM	NM	NM	NM	NM	NM	NM	DRY
May-2014				2.56	3.03	4.58	1.76	36.5	117	1.92	6.61	21.1	30.3	19.8	1.95	3.39	13.0	3.03	54.3	10.7	31.9	DRY
Nov-2014				1.39	28.1	1.81	2.50	7.22	NS	4.51	3.19	1.63	15.9	3.17	2.07	3.31	16.3	3.02	14.4	8.72	15.2	DRY
May-2015				1.78	2.97	7.69	2.45	62.7	20.9	3.11	7.29	2.08	2.53	17.6	6.46	2.94	2.01	18.5	18.2	11.2	44.5	14.9
Nov-2015				3.63	30.6	2.61	7.32	22.0	6.32	10.1	9.12	4.39	125	4.47	1.30	20.0	18.4	393	9.52	27.4	24.8	14.5

Table 4

Historical Groundwater and Surface Water Quality Data

Construction and Demolition Debris (C&D) Landfill, Pitt County (Permit #74-07), Pitt County, North Carolina

Parameter : Groundwater Elevation

Sample	Compliance Limit			Elevation (feet)														
Date	SWSL	2L Standard	2B Standard	*MW-1S*	*MW-2S*	*MW-3S*	*MW-3A*	*MW-4*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9A*	*MW-10*	*MW-11*	*MW-12S*	*MW-13*	*MW-14S*
Nov-2007	Not Applicable			**11.03**	**9.56**	**10.28**		**10.74**	**10.47**	**9.65**	**9.98**	**10.63**						
May-2008				**11.05**	**10.93**	**11.02**		**11.84**	**11.30**	**10.58**	**11.00**	**11.35**						
Nov-2008				**10.31**	**9.14**	**9.77**		**10.03**	**10.14**	**9.35**	**9.51**	**10.07**						
May-2009				**11.77**	**10.32**	**10.56**		**11.62**	**10.90**	**10.19**	**10.72**	**10.76**						
Jan-2010				**13.74**	**11.65**	**11.42**	**11.12**	**12.19**	**12.04**	**11.07**	**11.60**	**11.70**	**14.94**	**13.61**	**11.52**	**11.71**	**12.45**	**12.51**
May-2010				**11.87**	**10.83**	**10.70**	**10.36**	**11.62**	**11.33**	**10.64**	**11.06**	**12.74**	**13.76**	**12.50**	**11.02**	**12.03**	**11.22**	**11.41**
Nov-2010				**12.71**	**11.43**	**11.14**	**10.61**	**11.61**	**11.70**	**10.88**	**11.24**	**11.62**	**14.50**	**12.78**	**8.35**	**11.25**	**12.44**	**12.59**
May-2011				**11.97**	**10.56**	**10.71**	**10.39**	**11.49**	**11.19**	**10.40**	**10.85**	**11.25**	**13.57**	**12.33**	**10.26**	**11.00**	**12.01**	**12.03**
Nov-2011				**12.71**	**11.88**	**11.29**	**10.83**	**11.92**	**11.64**	**10.61**	**11.14**	**11.76**	**14.46**	**12.69**	**11.24**	**11.51**	**12.10**	**12.03**
May-2012				**12.04**	**10.43**	**10.53**	**10.31**	**11.49**	**11.10**	**10.30**	**10.79**	**11.36**	**13.67**	**12.21**	**10.33**	**11.06**	**11.86**	**11.99**
Nov-2012				**12.71**	**10.50**	**10.68**	**10.50**	**11.80**	**11.32**	**10.49**	**10.79**	**11.49**	**14.60**	**12.68**	**10.94**	**10.70**	**11.51**	**11.49**
May-2013				**12.55**	**10.71**	**10.90**	**10.42**	**11.85**	**11.45**	**10.44**	**11.08**	**11.58**	**13.99**	**12.28**	**10.32**	**10.50**	**10.77**	**11.00**
May-2014				**13.31**	**11.43**	**11.55**	**11.13**	**11.86**	**11.60**	**11.13**	**11.70**	**12.27**	**13.97**	**12.68**	**10.82**	**10.93**	**11.29**	**11.49**
Nov-2014				**12.17**	**10.33**	**10.38**	**10.03**	**11.70**	NS	**10.68**	**11.75**	**11.21**	**14.39**	**12.59**	**11.15**	**10.58**	**10.57**	**10.84**
May-2015				**14.21**	**12.14**	**12.21**	**11.73**	**12.03**	**13.08**	**11.58**	**11.89**	**12.80**	**14.47**	**13.20**	**11.23**	**11.32**	**11.69**	**11.86**
Nov-2015				**15.71**	**11.84**	**12.08**	**11.66**	**12.59**	**13.47**	**11.49**	**12.02**	**12.74**	**15.46**	**14.05**	**12.06**	**11.98**	**12.24**	**12.70**

NOTES:

1. This table shows historically detected constituents only, in either groundwater or surface water samples.
   Historical data is taken from July 2013 Water Quality Monitoring Report for May 2013 prepared by David Garrett & Associates Engineering and Geology.
2. MW-1S through MW-14S indicate Phase 1 and Phase 2 monitoring groundwater wells. SW-1 through SW-4 indicate surface water sampling locations.
3. Phase 1 monitoring wells are as follows: MW-1S, MW-2S, MW-4, MW-5, MW-6, MW-7 (detection monitoring program) and MW-3S, MW-3A and MW-8 (detection and assessment monitoring program).
4. Phase 2 monitoring wells are as follows: MW-9A (background well), MW-10, MW-11, MW-12S, MW-13, and MW-14S (detection monitoring program).
5. Compliance Limit = SWSL or 2L or 2B Standard.
6. SWSL = Solid Waste Section Limit (June 13, 2011).
7. µg/L = micrograms per liter. mg/L = milligrams per liter.
8. 2L Standard = NCAC Title 15A Subchapter 2L Classifications and Water Quality Standards Applicable to the GWs of North Carolina (April 1, 2013).
9. 2B Standard = Standards, criteria, or toxic concentrations either adopted per 15A NCAC 2B or National Criteria per EPA (Current as of 5/15/2013).
10. MDL = Method Detection Limit.
11. ND or ND< U = not detected above the method detection limit (MDL).
12. J indicates the detected result is above MDL and below the SWSL. U indicates concentration below MDL and MRL; non-detect.
13. NA = Not Analyzed or Not Applicable. NE = Not Established. NS = Not Sampled.
14. **Bold font** indicates analyte detection above MDL.
15. **Shaded field** denotes result that was at or above the applicable Compliance Limit.
16. Blank cells indicate that there is no relevant information available.

ATTACHMENT 1

Environment 1, Incorporated

Laboratory Field and Analytical Results Report

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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ID#: 6003

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH ,NC 27603-3415

DATE COLLECTED: 11/10/15
DATE REPORTED : 01/06/16

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-3A	MW-4	MW-5	MW-6	MW-7	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.5	6.1	6.6	6.6	6.9	11/10/15	BF	4500HB-00
Cyanide, ug/l	5.0	10.0	--- U					11/17/15	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	0.24 J	0.19 J	1.4 J	0.24 J	0.27 J	11/12/15	LFJ	EPA200.8
Arsenic, ug/l	0.14	10.0	8 J	3.6 J	3.5 J	3.6 J	2.9 J	11/12/15	LFJ	EPA200.8
Barium, ug/l	0.01	100.0	145	109	233	131	294	11/12/15	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.04 J	0.30 J	0.08 J	0.05 J	0.05 J	11/12/15	LFJ	EPA200.8
Cadmium, ug/l	0.01	1.0	0.15 J	0.21 J	0.38 J	0.45 J	0.35 J	11/12/15	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	11	1.3 J	1.5 J	1.1 J	4.1 J	11/12/15	LFJ	EPA200.8
Total Chromium, ug/l	0.12	10.0	5.1 J	3.3 J	9.8 J	1.3 J	9.9 J	11/12/15	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	1.3 J	1.0 J	4.9 J	1.9 J	5.6 J	11/12/15	LFJ	EPA200.8
Lead, ug/l	0.03	10.0	0.28 J	2.0 J	0.65 J	0.19 J	0.35 J	11/12/15	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20	--- U					11/12/15	JMN	245.1 R3-9
Nickel, ug/l	0.01	50.0	9.7 J	2.5 J	10.1 J	2.3 J	5.4 J	11/12/15	LFJ	EPA200.8
Selenium, ug/l	0.22	10.0	--- U					12/08/15	MTM	3113B-04
Selenium, ug/l	0.22	10.0		1.8 J	10	0.81 J	9.6 J	11/12/15	LFJ	EPA200.8
Silver, ug/l	0.01	10.0	0.03 J	0.02 J	0.03 J	0.01 J	--- U	11/12/15	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.16 J	0.05 J	0.09 J	0.06 J	0.04 J	11/12/15	LFJ	EPA200.8
Tin, ug/l	0.06	100.0	0.35 J					11/12/15	LFJ	EPA200.8
Vanadium, ug/l	0.22	25.0	1.5 J	5.3 J	1.2 J	4.1 J	1.9 J	11/12/15	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	6.9 J	5.9 J	6.6 J	6.2 J	6.1 J	11/12/15	LFJ	EPA200.8
Sulfide, ug/l	100	1000	--- U					11/13/15	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	1978	514	1503	400	1621	11/10/15	BF	2510B-97
Temperature, °C			20	21	21	21	21	11/10/15	BF	2550B-00
Static Water Level, feet			10.27	5.83	4.43	8.54	7.38	11/10/15	BF	
Well Depth, feet			23.44	15.98	7.84	16.65	16.33	11/10/15	BF	
Turbidity (Field), NTU	1.0	1.0	7.32	22.0	6.32	10.1	9.12	11/10/15	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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JUDSON WHITEHURST (C&D LANDFILL)
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RALEIGH ,NC 27603-3415

DATE COLLECTED: 11/10/15
DATE REPORTED : 01/06/16

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-8	Well #1 Shallow	Well #2 Shallow	Well #3 Shallow	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.1	6.4	5.8	6.7	11/10/15	BF	4500HB-00
Cyanide, ug/l	5.0	10.0	--- U	--- U		--- U	11/17/15	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	0.32 J	0.95 J	0.15 J	0.16 J	11/12/15	LFJ	EPA200.8
Arsenic, ug/l	0.50	10.0	2.1 J	1.0 J	1.2 J		11/12/15	LFJ	EPA200.8
Arsenic, ug/l	0.50	10.0				11	12/09/15	MTM	3113B-04
Barium, ug/l	0.01	100.0	131	21.4 J	34.6 J	625	11/12/15	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	--- U	0.07 J	0.04 J	11/12/15	LFJ	EPA200.8
Cadmium, ug/l	0.01	1.0	0.12 J	0.08 J	0.26 J	0.04 J	11/12/15	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	4.0 J	0.30 J	0.39 J	2.7 J	11/12/15	LFJ	EPA200.8
Total Chromium, ug/l	0.12	10.0	1.3 J	--- U	1.2 J	7.3 J	11/12/15	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	0.71 J	1.6 J	2.7 J	2.3 J	11/12/15	LFJ	EPA200.8
Lead, ug/l	0.03	10.0	0.16 J	0.26 J	2.6 J	0.09 J	11/12/15	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20	--- U	--- U			11/12/15	JMN	245.1 R3-94
Mercury, ug/l	0.05	0.20				--- U	11/25/15	JMN	245.1 R3-94
Nickel, ug/l	0.01	50.0	2.5 J	2.9 J	1.3 J	5.7 J	11/12/15	LFJ	EPA200.8
Selenium, ug/l	0.53	10.0	1.7 J	0.23 J	0.26 J		11/12/15	LFJ	EPA200.8
Selenium, ug/l	0.53	10.0				0.79 J	12/08/15	MTM	3113B-04
Silver, ug/l	0.01	10.0	0.02 J	--- U	--- U	--- U	11/12/15	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.18 J	--- U	0.07 J	--- U	11/12/15	LFJ	EPA200.8
Tin, ug/l	0.06	100.0	0.20 J	--- U		0.14 J	11/12/15	LFJ	EPA200.8
Vanadium, ug/l	0.22	25.0	1.2 J	2.3 J	2.8 J	3.2 J	11/12/15	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	1.3 J	1.7 J	3.2 J	1.7 J	11/12/15	LFJ	EPA200.8
Sulfide, ug/l	100	1000	--- U	--- U		--- U	11/13/15	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	665	507	394	3010	11/10/15	BF	2510B-97
Temperature, °C			22	21	22	23	11/10/15	BF	2550B-00
Static Water Level, feet			8.47	5.20	9.60	10.94	11/10/15	BF	
Well Depth, feet			20.26	17.21	16.57	22.24	11/10/15	BF	
Turbidity (Field), NTU	1.0	1.0	4.39	3.63	30.6	2.61	11/10/15	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

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C/O MR DAVID GARRETT
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RALEIGH, NC 27603-3415

REVIEWED BY:

CLIENT ID: 6003

ANALYST: CHS
DATE COLLECTED: 11/10/15
DATE EXTRACTED: 11/11/15
DATE ANALYZED: 12/08/15
DATE REPORTED: 01/06/16

PESTICIDES AND PCB'S
EPA METHOD 8081B R2(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
1. Aldrin	0.029	0.05	--- U	--- U	--- U	--- U
2. Alpha-BHC	0.032	0.05	--- U	--- U	--- U	--- U
3. Beta-BHC	0.031	0.05	--- U	--- U	--- U	--- U
4. Delta-BHC	0.030	0.05	--- U	--- U	--- U	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U	--- U	--- U	--- U
6. Chlordane	0.320	0.50	--- U	--- U	--- U	--- U
7. 4,4-DDD	0.051	0.10	--- U	--- U	--- U	--- U
8. 4,4-DDE	0.049	0.10	--- U	--- U	--- U	--- U
9. 4,4-DDT	0.052	0.10	--- U	--- U	--- U	--- U
10. Dieldrin	0.042	0.075	--- U	--- U	--- U	--- U
11. Endosulfan I	0.056	0.10	--- U	--- U	--- U	--- U
12. Endosulfan II	0.046	0.10	--- U	--- U	--- U	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U	--- U	--- U	--- U
14. Endrin	0.053	0.10	--- U	--- U	--- U	--- U
15. Endrin Aldehyde	0.068	0.10	--- U	--- U	--- U	--- U
16. Heptachlor	0.039	0.05	--- U	--- U	--- U	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U	--- U	--- U	--- U
18. Methoxychlor	0.530	1.00	--- U	--- U	--- U	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U	--- U	--- U	--- U
20. Toxaphene	0.690	1.50	--- U	--- U	--- U	--- U

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REVIEWED BY:

CLIENT ID: 6003

ANALYST: CHS
DATE COLLECTED: 11/10/15
DATE EXTRACTED: 11/12/15
DATE ANALYZED: 12/08/15
DATE REPORTED: 01/06/16

LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
1. 2,4-D	0.36	2.0	--- U	--- U	--- U	--- U
2. Dinoseb	0.54	1.0	--- U	--- U	--- U	--- U
3. 2,4,5-TP	0.42	2.0	--- U	--- U	--- U	--- U
4. 2,4,5-T	0.47	2.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

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CLIENT ID: 6003

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 01/06/16

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-4	MW-5	MW-6	MW-7	Well #2 Shallow
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	0.80 J	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	0.30 J	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	17.70 J	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U
48. Tetrahydrofuran	0.39	1.0	--- U	0.50 J	--- U	1.60	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

REVIEWED BY:

CLIENT ID: 6003

ANALYST: CHS
DATE COLLECTED: 11/10/15
DATE EXTRACTED: 11/11/15
DATE ANALYZED: 12/06/15
DATE REPORTED: 01/06/16

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
1. Acenaphthene	2.66	10.0	--- U	--- U	--- U	--- U
2. Acenaphthylene	2.60	10.0	--- U	--- U	--- U	--- U
3. Anthracene	2.97	10.0	--- U	--- U	--- U	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U	--- U	--- U	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U	--- U	--- U	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U	--- U	--- U	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U	--- U	--- U	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U	--- U	--- U	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U	--- U	--- U	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U	--- U	--- U	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U	--- U	--- U	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U	--- U	--- U	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U	--- U	--- U	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U	--- U	--- U	--- U
16. Chrysene	4.04	10.0	--- U	--- U	--- U	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U	--- U	--- U	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U	--- U	--- U	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U	--- U	--- U	--- U
20. Diethyl Phthalate	3.92	10.0	--- U	--- U	--- U	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U	--- U	--- U	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U	--- U	--- U	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U	--- U	--- U	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U	--- U	--- U	--- U
25. Fluoranthene	3.92	10.0	--- U	--- U	--- U	--- U
26. Fluorene	2.95	10.0	--- U	--- U	--- U	--- U
27. Hexachlorobenzene	2.61	10.0	--- U	--- U	--- U	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U	--- U	--- U	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U	--- U	--- U	--- U
30. Isophorone	3.74	10.0	--- U	--- U	--- U	--- U
31. Nitrobenzene	2.85	10.0	--- U	--- U	--- U	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U	--- U	--- U	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U	--- U	--- U	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U	--- U	--- U	--- U
35. Phenanthrene	3.24	10.0	--- U	--- U	--- U	--- U
36. Pyrene	3.63	10.0	--- U	--- U	--- U	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U	--- U	--- U	--- U
38. 2-Chlorophenol	2.75	10.0	--- U	--- U	--- U	--- U
39. O-Cresol	3.68	10.0	--- U	--- U	--- U	--- U
40. P-Cresol	4.12	10.0	--- U	--- U	--- U	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U	--- U	--- U	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U	--- U	--- U	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U	--- U	--- U	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U	--- U	--- U	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U	--- U	--- U	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U	--- U	--- U	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U	--- U	--- U	--- U
48. 2-Nitrophenol	3.64	10.0	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003

ANALYST: CHS
DATE COLLECTED: 11/10/15
DATE EXTRACTED: 11/11/15
DATE ANALYZED: 12/06/15
DATE REPORTED: 01/06/16

REVIEWED BY:

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
49. 4-Nitrophenol	3.17	50.0	--- U	--- U	--- U	--- U
50. Pentachlorophenol	5.33	25.0	--- U	--- U	--- U	--- U
51. Phenol	1.86	10.0	--- U	--- U	--- U	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U	--- U	--- U	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U	--- U	--- U	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U	--- U	--- U	--- U
55. Acetophenone	2.89	10.0	--- U	--- U	--- U	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U	--- U	--- U	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U	--- U	--- U	--- U
58. Benzyl Alcohol	4.47	20.0	--- U	--- U	--- U	--- U
59. 4-Chloroaniline	3.36	20.0	--- U	--- U	--- U	--- U
60. Chlorobenzilate	5.12	10.0	--- U	--- U	--- U	--- U
61. Diallate	2.98	10.0	--- U	--- U	--- U	--- U
62. Dibenzofuran	4.28	10.0	--- U	--- U	--- U	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U	--- U	--- U	--- U
64. Dimethoate	3.98	20.0	--- U	--- U	--- U	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U	--- U	--- U	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U	--- U	--- U	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U	--- U	--- U	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U	--- U	--- U	--- U
69. Diphenylamine	5.10	10.0	--- U	--- U	--- U	--- U
70. Disulfoton	4.28	10.0	--- U	--- U	--- U	--- U
71. Famphur	3.98	20.0	--- U	--- U	--- U	--- U
72. Hexachloropropene	4.31	10.0	--- U	--- U	--- U	--- U
73. Isosafrole	2.88	10.0	--- U	--- U	--- U	--- U
74. Kepone	2.78	20.0	--- U	--- U	--- U	--- U
75. Methapyrilene	3.54	100.0	--- U	--- U	--- U	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U	--- U	--- U	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U	--- U	--- U	--- U
78. Methyl Parathion	4.32	10.0	--- U	--- U	--- U	--- U
79. m-Cresol	3.81	10.0	--- U	--- U	--- U	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U	--- U	--- U	--- U
81. 1-Naphthylamine	5.61	10.0	--- U	--- U	--- U	--- U
82. 2-Naphthylamine	4.62	10.0	--- U	--- U	--- U	--- U
83. 2-Nitroaniline	3.61	50.0	--- U	--- U	--- U	--- U
84. 3-Nitroaniline	4.81	50.0	--- U	--- U	--- U	--- U
85. 4-Nitroaniline	4.22	20.0	--- U	--- U	--- U	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U	--- U	--- U	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U	--- U	--- U	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U	--- U	--- U	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U	--- U	--- U	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U	--- U	--- U	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U	--- U	--- U	--- U
92. Parathion	3.12	10.0	--- U	--- U	--- U	--- U
93. Pentachlorobenzene	3.92	10.0	--- U	--- U	--- U	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U	--- U	--- U	--- U
95. Phenacetin	4.41	20.0	--- U	--- U	--- U	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

REVIEWED BY:

CLIENT ID: 6003

ANALYST: CHS
DATE COLLECTED: 11/10/15
DATE EXTRACTED: 11/11/15
DATE ANALYZED: 12/06/15
DATE REPORTED: 01/06/16

SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
97. Phorate	3.86	10.0	--- U	--- U	--- U	--- U
98. Pronamide	3.69	10.0	--- U	--- U	--- U	--- U
99. Safrole	4.12	10.0	--- U	--- U	--- U	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U	--- U	--- U	--- U
101. Thionazin	4.62	20.0	--- U	--- U	--- U	--- U
102. O-Toluidine	4.11	10.0	--- U	--- U	--- U	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U	--- U	--- U	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U	--- U	--- U	--- U
105. Hexachloroethane	1.49	10.0	--- U	--- U	--- U	--- U
106. Isodrin	3.11	20.0	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

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Wastewater ID: 10

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GREENVILLE, N.C. 27835-7085

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 01/06/16

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	1.70	--- U	--- U	1.70
21. 1,2-Dichloroethane	0.21	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	0.40 J
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	0.80 J
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	0.50 J
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U
48. Acrolein	40.57	53.0	--- U	--- U	--- U	--- U

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 01/06/16

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-3A	MW-8	Well #1 Shallow	Well #3 Shallow
49. Allyl Chloride	0.20	10.0	--- U	--- U	--- U	--- U
50. Chloroprene	0.21	20.0	--- U	--- U	--- U	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U	--- U	--- U	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U	--- U	--- U	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U	--- U	--- U	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U	--- U	--- U	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U	--- U	--- U	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U	--- U	--- U	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U	--- U	--- U	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U	--- U	--- U	--- U
59. Methacrylonitrile	1.93	100.0	--- U	--- U	--- U	--- U
60. Methyl Methacrylate	0.25	30.0	--- U	--- U	--- U	--- U
61. Naphthalene	0.47	10.0	--- U	--- U	--- U	--- U
62. Propionitrile	3.26	150.0	--- U	--- U	--- U	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U	--- U	--- U	--- U
64. Acetonitrile	36.29	55.0	--- U	--- U	--- U	--- U
65. Tetrahydrofuran	0.39	1.0	8.60	2.60	--- U	20.90

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
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RALEIGH, NC 27603-3415

CLIENT ID: 6003 X

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 12/29/15

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Trip Blank
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.21	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U
48. Acrolein	40.57	53.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003 X

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 12/29/15

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Trip Blank
49. Allyl Chloride	0.20	10.0	--- U
50. Chloroprene	0.21	20.0	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U
59. Methacrylonitrile	1.93	100.0	--- U
60. Methyl Methacrylate	0.25	30.0	--- U
61. Naphthalene	0.47	10.0	--- U
62. Propionitrile	3.26	150.0	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U
64. Acetonitrile	36.29	55.0	--- U
65. Tetrahydrofuran	0.39	1.0	0.60 J

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 **Week:** 48

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH NC 27603

(919) 418-4375

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																			
pH CHECK (LAB)																			
CONTAINER TYPE, P/G	P	P	P	P	P	P		G	G	G	G	G	G	G	G	G			
CHEMICAL PRESERVATION	A	D	A	F	A	A		E	E	A	A	A	A	E	A	A			
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8151A Landfill	8151A Duplicate
MW-3A	11-10-15	0925		20	12	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G
MW-4	11-10-15	1145		21	4	G		G		G	G	G	G	G							
MW-5	11-10-15	1020		21	4	G		G		G	G	G	G	G							
MW-6	11-10-15	1100		21	4	G		G		G	G	G	G	G							
MW-7	11-10-15	1125		21	4	G		G		G	G	G	G	G							
MW-8	11-10-15	0855		22	12	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G
Well #1 Shallow	11-10-15	0820		21	12	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G
Well #2 Shallow	11-10-15	1040		22	4	G		G		G	G	G	G	G							
Well #3 Shallow	11-10-15	1000		23	12	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G
Trip Blank	11-10-15				2									G					G		

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY (SEAL) MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
Bobby Fox / Tom Beasley

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	11-10-15 2:45		11/10/15 2:08
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 295790

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 **Week:** 48

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH NC 27603

(919) 418-4375

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																				
pH CHECK (LAB)																				
CONTAINER TYPE, P/G	P																			
CHEMICAL PRESERVATION	A																			
PARAMETERS/TESTS	Field Parmeter																			
# OF CONTAINERS	12	4	4	4	4	12	12	4	12	2										
TEMPERATURE, °C AT COLLECTION	20	21	21	21	21	22	21	22	23											
TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION																				
COLLECTION DATE	11-10-15 ~~10-8-15~~	11-10-15	11-10-15	11-10-15	11-10-15	11-10-15	11-10-15	11-10-15	11-10-15	11-10-15										
COLLECTION TIME	0925	1145	1020	1100	1125	0855	0820	1040	1000											
SAMPLE LOCATION	MW-3A	MW-4	MW-5	MW-6	MW-7	MW-8	Well #1 Shallow	Well #2 Shallow	Well #3 Shallow	Trip Blank										

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY (SEAL) MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Bobby Lane / Tom Beasley

SAMPLES RECEIVED IN LAB AT 0.2°C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Lane	11-10-15 2:45	[signature]	11/10/15 1248
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

FORM #5

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 295789

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6003 C

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH ,NC 27603-3415

DATE COLLECTED: 11/10/15
DATE REPORTED : 12/22/15

REVIEWED BY:

PARAMETERS	MDL	SWSL	SW-1	SW-2	SW-3	SW-4	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.8	6.8	6.8	6.4	11/10/15	BF	4500HB-00
Antimony, ug/l	0.02	6.0	0.10 J	0.09 J	0.06 J	0.86 J	11/12/15	LFJ	EPA200.8
Arsenic, ug/l	0.14	10.0	0.71 J	0.55 J	0.52 J	0.39 J	11/12/15	LFJ	EPA200.8
Barium, ug/l	0.01	100.0	55.8 J	44.7 J	63.2 J	74.0 J	11/12/15	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.02 J	0.03 J	0.13 J	0.09 J	11/12/15	LFJ	EPA200.8
Cadmium, ug/l	0.01	1.0	0.04 J	0.04 J	0.07 J	0.08 J	11/12/15	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.26 J	0.20 J	0.74 J	0.26 J	11/12/15	LFJ	EPA200.8
Total Chromium, ug/l	0.12	10.0	0.86 J	0.43 J	0.85 J	0.53 J	11/12/15	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	0.66 J	0.87 J	0.72 J	0.74 J	11/12/15	LFJ	EPA200.8
Lead, ug/l	0.03	10.0	0.38 J	0.46 J	1.0 J	0.68 J	11/12/15	LFJ	EPA200.8
Nickel, ug/l	0.01	50.0	0.80 J	0.74 J	0.88 J	0.75 J	11/12/15	LFJ	EPA200.8
Selenium, ug/l	0.22	10.0	0.46 J	--- U	--- U	--- U	11/12/15	LFJ	EPA200.8
Silver, ug/l	0.01	10.0	--- U	--- U	--- U	0.03 J	11/12/15	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	--- U	0.04 J	0.07 J	11/12/15	LFJ	EPA200.8
Vanadium, ug/l	0.22	25.0	1.3 J	0.84 J	1.7 J	1.5 J	11/12/15	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	4.7 J	4.8 J	9.4 J	9.8 J	11/12/15	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	292	153	191	127	11/10/15	BF	2510B-97
Temperature, °C			20	21	20	21	11/10/15	BF	2550B-00
Turbidity (Field), NTU	1.0	1.0	9.52	27.4	24.8	14.5	11/10/15	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003 C

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE REPORTED: 12/22/15

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	11/19/15 SW-1	11/20/15 SW-2	11/20/15 SW-3	11/20/15 SW-4
	Date Analyzed:					
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003 C

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE REPORTED: 12/22/15

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 11/19/15 SW-1	11/20/15 SW-2	11/20/15 SW-3	11/20/15 SW-4
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Inc.
P.O. Box 8085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 C **Week:** 48

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH NC 27603

(919) 418-4375

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																			
pH CHECK (LAB)		2			2	2	2												
CONTAINER TYPE, P/G		P	P	P	P	G	G	P											
CHEMICAL PRESERVATION		A	A	A	A	E	E	A											
PARAMETERS/TESTS		Field pH	Metals	Conductivity	Temperature	EPA 8260B	8260 Dup. 1	Field Parmeter											
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS														
SW-1	11-10-15	1115		26	4	G	G	G	G	G	G	G							
SW-2	11-10-15	1035		21	4	G	G	G	G	G	G	G							
SW-3	11-10-15	0950		20	4	G	G	G	G	G	G	G							
SW-4	11-10-15	1330		21	4	G	G	G	G	G	G	G							

CHEMICAL PRESERVATION: A - NONE, B - HNO_3, C - H_2SO_4, D - NAOH, E - HCL, F - ZINC ACETATE/NAOH, G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY (SEAL) MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) Bobby Fox / Tom Beasley

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	11-10-15 2:45	[signature]	11/10/15 2:45
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 295788

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6003 D

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH ,NC 27603-3415

DATE COLLECTED: 11/10/15
DATE REPORTED : 01/06/16

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-9A	MW-10	MW-11	MW-13	MW-12s	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.2	5.6	6.2	5.9	6.1	11/10/15	BF	4500HB-00
Cyanide, ug/l	5.0	10.0					--- U	11/17/15	SEJ	4500CNE-99
Antimony, ug/l	0.02	6.0	0.20 J	0.17 J	0.12 J	0.16 J	0.14 J	11/12/15	LFJ	EPA200.8
Arsenic, ug/l	0.14	10.0	--- U	1.2 J	0.24 J	0.26 J	2.8 J	11/12/15	LFJ	EPA200.8
Barium, ug/l	0.01	100.0	54.3 J	119	21.3 J	57.7 J	69.2 J	11/12/15	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	0.05 J	0.06 J	0.03 J	0.04 J	11/12/15	LFJ	EPA200.8
Cadmium, ug/l	0.01	1.0	0.18 J	0.62 J	0.45 J	1	1	11/12/15	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.10 J	0.38 J	0.52 J	0.35 J	0.30 J	11/12/15	LFJ	EPA200.8
Total Chromium, ug/l	0.12	10.0	--- U	1.7 J	0.65 J	0.42 J	2.7 J	11/12/15	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	0.46 J	0.75 J	1.1 J	2.0 J	1.5 J	11/12/15	LFJ	EPA200.8
Lead, ug/l	0.03	10.0	0.16 J	0.11 J	0.09 J	1.0 J	0.19 J	11/12/15	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20					--- U	11/12/15	JMN	245.1 R3-9
Nickel, ug/l	0.01	50.0	1.9 J	1.7 J	4.1 J	2.5 J	2.3 J	11/12/15	LFJ	EPA200.8
Selenium, ug/l	0.22	10.0	--- U	2.5 J	0.91 J	0.63 J	0.91 J	11/12/15	LFJ	EPA200.8
Silver, ug/l	0.01	10.0	--- U	--- U	--- U	--- U	0.03 J	11/12/15	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	--- U	0.03 J	0.06 J	0.07 J	11/12/15	LFJ	EPA200.8
Tin, ug/l	0.06	100.0					0.35 J	11/12/15	LFJ	EPA200.8
Vanadium, ug/l	0.22	25.0	0.91 J	5.3 J	0.54 J	5.8 J	3.2 J	11/12/15	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	4.8 J	2.8 J	4.5 J	3.6 J	6.0 J	11/12/15	LFJ	EPA200.8
Sulfide, ug/l	100	1000					--- U	11/13/15	LFJ	4500S2D-00
Conductivity (at 25c), uMhos/cm	1.0	1.0	365	630	743	415	577	11/10/15	BF	2510B-97
Temperature, °C			20	21	23	22	24	11/10/15	BF	2550B-00
Static Water Level, feet			5.12	2.56	2.43	8.45	4.20	11/10/15	BF	
Well Depth, feet			23.17	22.73	23.84	22.68	22.93	11/10/15	BF	
Turbidity (Field), NTU	1.0	1.0	125	4.47	1.30	18.4	20.0	11/10/15	BF	2130B-01

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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ID#: 6003 D

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH ,NC 27603-3415

DATE COLLECTED: 11/10/15
DATE REPORTED : 01/06/16

REVIEWED BY:

PARAMETERS	MDL	SWSL	MW-14S	Analysis Date	Analyst	Method Code
PH (field measurement), Units			6.4	11/10/15	BF	4500HB-00
Antimony, ug/l	0.02	6.0	0.12 J	11/12/15	LFJ	EPA200.8
Arsenic, ug/l	0.14	10.0	2.4 J	11/12/15	LFJ	EPA200.8
Barium, ug/l	0.01	100.0	93.8 J	11/12/15	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	0.48 J	11/12/15	LFJ	EPA200.8
Cadmium, ug/l	0.01	1.0	0.66 J	11/12/15	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	1.6 J	11/12/15	LFJ	EPA200.8
Total Chromium, ug/l	0.12	10.0	8.4 J	11/12/15	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	3.6 J	11/12/15	LFJ	EPA200.8
Lead, ug/l	0.03	10.0	13	11/12/15	LFJ	EPA200.8
Nickel, ug/l	0.01	50.0	4.1 J	11/12/15	LFJ	EPA200.8
Selenium, ug/l	0.22	10.0	--- U	11/12/15	LFJ	EPA200.8
Silver, ug/l	0.01	10.0	0.02 J	11/12/15	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	0.13 J	11/12/15	LFJ	EPA200.8
Vanadium, ug/l	0.22	25.0	27	11/12/15	LFJ	EPA200.8
Zinc, ug/l	0.20	10.0	35	11/12/15	LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	138	11/10/15	BF	2510B-97
Temperature, °C			21	11/10/15	BF	2550B-00
Static Water Level, feet			3.90	11/10/15	BF	
Well Depth, feet			23.12	11/10/15	BF	
Turbidity (Field), NTU	1.0	1.0	393	11/10/15	BF	2130B-01

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C/O MR DAVID GARRETT
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322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

REVIEWED BY:

CLIENT ID: 6003 D

ANALYST: CHS
DATE COLLECTED: 11/10/15
DATE EXTRACTED: 11/11/15
DATE ANALYZED: 12/08/16
DATE REPORTED: 01/06/16

PESTICIDES AND PCB'S
EPA METHOD 8081B R2(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
1. Aldrin	0.029	0.05	--- U
2. Alpha-BHC	0.032	0.05	--- U
3. Beta-BHC	0.031	0.05	--- U
4. Delta-BHC	0.030	0.05	--- U
5. Gamma-BHC (Lindane)	0.032	0.05	--- U
6. Chlordane	0.320	0.50	--- U
7. 4,4-DDD	0.051	0.10	--- U
8. 4,4-DDE	0.049	0.10	--- U
9. 4,4-DDT	0.052	0.10	--- U
10. Dieldrin	0.042	0.075	--- U
11. Endosulfan I	0.056	0.10	--- U
12. Endosulfan II	0.046	0.10	--- U
13. Endosulfan Sulfate	0.072	0.10	--- U
14. Endrin	0.053	0.10	--- U
15. Endrin Aldehyde	0.068	0.10	--- U
16. Heptachlor	0.039	0.05	--- U
17. Heptachlor Epoxide	0.042	0.075	--- U
18. Methoxychlor	0.530	1.00	--- U
19. Pcb's (Aroclors)	0.500	2.00	--- U
20. Toxaphene	0.690	1.50	--- U

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LANDFILL APPENDIX II
EPA METHOD 8151A R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
1. 2,4-D	0.36	2.0	--- U
2. Dinoseb	0.54	1.0	--- U
3. 2,4,5-TP	0.42	2.0	--- U
4. 2,4,5-T	0.47	2.0	--- U

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REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-9A	MW-10	MW-11	MW-13	MW-14S
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U
48. Tetrahydrofuran	0.39	1.0	--- U	--- U	2.50	--- U	--- U

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P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

REVIEWED BY:

CLIENT ID: 6003 D

ANALYST: CHS
DATE COLLECTED: 11/10/15
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SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
1. Acenaphthene	2.66	10.0	--- U
2. Acenaphthylene	2.60	10.0	--- U
3. Anthracene	2.97	10.0	--- U
4. Benzo[a]antrhacene	4.16	10.0	--- U
5. Benzo[b]fluoranthene	3.32	10.0	--- U
6. Benzo[k]fluoranthene	4.23	10.0	--- U
7. Benzo[g,h,i]perylene	2.61	10.0	--- U
8. Benzo[a]pyrene	3.27	10.0	--- U
9. 4-Bromophenyl Phenyl Ether	2.63	10.0	--- U
10. Butyl Benzyl Phthalate	5.78	10.0	--- U
11. Bis-(2-Chloroethoxy) Methane	3.14	10.0	--- U
12. Bis-(2-Chloroethyl) Ether	2.58	10.0	--- U
13. Bis-(2-Chloroisopropyl) Ether	2.58	10.0	--- U
14. 2-Chloronaphthalene	2.17	10.0	--- U
15. 4-Chlorophenyl Phenyl Ether	2.42	10.0	--- U
16. Chrysene	4.04	10.0	--- U
17. Dibenzo[a,h]anthracene	2.78	10.0	--- U
18. Di-N-Butyl Phthalate	3.09	10.0	--- U
19. Dimethyl Phthalate	3.78	10.0	--- U
20. Diethyl Phthalate	3.92	10.0	--- U
21. 2,4-Dinitrotoluene	3.95	10.0	--- U
22. 2,6-Dinitrotoluene	3.88	10.0	--- U
23. Di-N-Octyl Phthalate	2.81	10.0	--- U
24. Bis-(2-Ethylhexyl) Phthalate	9.97	15.0	--- U
25. Fluoranthene	3.92	10.0	--- U
26. Fluorene	2.95	10.0	--- U
27. Hexachlorobenzene	2.61	10.0	--- U
28. Hexachlorocyclopentadiene	4.16	10.0	--- U
29. Indeno[1,2,3-Cd]pyrene	2.91	10.0	--- U
30. Isophorone	3.74	10.0	--- U
31. Nitrobenzene	2.85	10.0	--- U
32. N-Nitrosodimethylamine	4.25	10.0	--- U
33. N-Nitrosodiphenylamine	3.95	10.0	--- U
34. N-Nitrosodi-N-Propylamine	4.06	10.0	--- U
35. Phenanthrene	3.24	10.0	--- U
36. Pyrene	3.63	10.0	--- U
37. 4-Chloro-3-Methylphenol	3.79	20.0	--- U
38. 2-Chlorophenol	2.75	10.0	--- U
39. O-Cresol	3.68	10.0	--- U
40. P-Cresol	4.12	10.0	--- U
41. 2,4-Dichlorophenol	5.19	10.0	--- U
42. 2,6-Dichlorophenol	4.89	10.0	--- U
43. 2,4-Dimethylphenol	3.21	10.0	--- U
44. 4,6-Dinitro-2-Methylphenol	4.77	50.0	--- U
45. 2,4-Dinitrophenol	4.37	50.0	--- U
46. Ethyl Methanesulfonate	5.26	20.0	--- U
47. Methyl Methanesulfonate	4.92	10.0	--- U
48. 2-Nitrophenol	3.64	10.0	--- U

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SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
49. 4-Nitrophenol	3.17	50.0	--- U
50. Pentachlorophenol	5.33	25.0	--- U
51. Phenol	1.86	10.0	--- U
52. 2,3,4,6-Tetrachlorophenol	3.12	10.0	--- U
53. 2,4,5-Trichlorophenol	4.17	10.0	--- U
54. 2,4,6-Trichlorophenol	3.84	10.0	--- U
55. Acetophenone	2.89	10.0	--- U
56. 2-Acetylaminofluorene	3.98	20.0	--- U
57. 4-Aminobiphenyl	4.12	20.0	--- U
58. Benzyl Alcohol	4.47	20.0	--- U
59. 4-Chloroaniline	3.36	20.0	--- U
60. Chlorobenzilate	5.12	10.0	--- U
61. Diallate	2.98	10.0	--- U
62. Dibenzofuran	4.28	10.0	--- U
63. 3,3-Dichlorobenzidine	4.22	20.0	--- U
64. Dimethoate	3.98	20.0	--- U
65. P-Dimethylaminoazobenzene	2.89	10.0	--- U
66. 7,12-Dimethylbenz[a]anthracene	5.26	10.0	--- U
67. 3,3-Dimethylbenzadine	3.21	10.0	--- U
68. 1,3-Dinitrobenzene	2.89	20.0	--- U
69. Diphenylamine	5.10	10.0	--- U
70. Disulfoton	4.28	10.0	--- U
71. Famphur	3.98	20.0	--- U
72. Hexachloropropene	4.31	10.0	--- U
73. Isosafrole	2.88	10.0	--- U
74. Kepone	2.78	20.0	--- U
75. Methapyrilene	3.54	100.0	--- U
76. 3-Methylchloroanthrene	4.21	10.0	--- U
77. 2-Methylnaphthalene	3.79	10.0	--- U
78. Methyl Parathion	4.32	10.0	--- U
79. m-Cresol	3.81	10.0	--- U
80. 1,4-Naphthoquinone	4.00	10.0	--- U
81. 1-Naphthylamine	5.61	10.0	--- U
82. 2-Naphthylamine	4.62	10.0	--- U
83. 2-Nitroaniline	3.61	50.0	--- U
84. 3-Nitroaniline	4.81	50.0	--- U
85. 4-Nitroaniline	4.22	20.0	--- U
86. 5-Nitro-O-Toluidine	4.01	10.0	--- U
87. N-Nitrosodi-n-butylamine	3.63	10.0	--- U
88. N-Nitrosodiethylamine	3.83	20.0	--- U
89. N-Nitrosomethylethylamine	3.83	10.0	--- U
90. N-Nitrosopiperidine	5.19	20.0	--- U
91. N-Nitrosopyrrolidine	2.89	10.0	--- U
92. Parathion	3.12	10.0	--- U
93. Pentachlorobenzene	3.92	10.0	--- U
94. Pentachloronitrobenzene	3.71	20.0	--- U
95. Phenacetin	4.41	20.0	--- U
96. 1,4 Benzenediamine	2.99	10.0	--- U

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SEMI-VOLATILE ORGANICS
EPA METHOD 8270D R4(07)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
97. Phorate	3.86	10.0	--- U
98. Pronamide	3.69	10.0	--- U
99. Safrole	4.12	10.0	--- U
100. 1,2,4,5-Tetrachlorobenzene	5.01	10.0	--- U
101. Thionazin	4.62	20.0	--- U
102. O-Toluidine	4.11	10.0	--- U
103. 1,3,5-Trinitrobenzene	3.98	10.0	--- U
104. 0,0,0-Triethyl Phosphorothioate	3.61	10.0	--- U
105. Hexachloroethane	1.49	10.0	--- U
106. Isodrin	3.11	20.0	--- U

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Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003 D

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 01/06/16

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
1. Chloromethane	0.77	1.0	--- U
2. Vinyl Chloride	0.63	1.0	--- U
3. Bromomethane	0.67	10.0	--- U
4. Chloroethane	0.48	10.0	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U
7. Acetone	9.06	100.0	--- U
8. Iodomethane	0.26	10.0	--- U
9. Carbon Disulfide	0.23	100.0	--- U
10. Methylene Chloride	0.64	1.0	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U
13. Vinyl Acetate	0.20	50.0	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U
15. 2-Butanone	2.21	100.0	--- U
16. Bromochloromethane	0.27	3.0	--- U
17. Chloroform	0.25	5.0	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U
20. Benzene	0.24	1.0	--- U
21. 1,2-Dichloroethane	0.21	1.0	--- U
22. Trichloroethene	0.23	1.0	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U
24. Bromodichloromethane	0.21	1.0	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U
27. Toluene	0.23	1.0	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U
30. Tetrachloroethene	0.17	1.0	--- U
31. 2-Hexanone	1.57	50.0	--- U
32. Dibromochloromethane	0.24	3.0	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U
34. Chlorobenzene	0.30	3.0	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U
36. Ethylbenzene	0.21	1.0	--- U
37. Xylenes	0.68	5.0	--- U
38. Dibromomethane	0.28	10.0	--- U
39. Styrene	0.19	1.0	--- U
40. Bromoform	0.20	3.0	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U
46. Acrylonitrile	2.72	200.0	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U
48. Acrolein	40.57	53.0	--- U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH, NC 27603-3415

CLIENT ID: 6003 D

ANALYST: MAO
DATE COLLECTED: 11/10/15
DATE ANALYZED: 11/19/15
DATE REPORTED: 01/06/16

REVIEWED BY:

LANDFILL APPENDIX II
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	MDL	SWSL	MW-12s
49. Allyl Chloride	0.20	10.0	--- U
50. Chloroprene	0.21	20.0	--- U
51. 1,3-Dichlorobenzene	0.41	5.0	--- U
52. Dichlorodifluoromethane	0.51	5.0	--- U
53. 1,3-Dichloropropane	0.28	1.0	--- U
54. 2,2-Dichloropropane	0.17	15.0	--- U
55. 1,1-Dichloropropene	0.22	5.0	--- U
56. Ethyl Methacrylate	0.16	10.0	--- U
57. Hexachlorobutadiene	0.57	10.0	--- U
58. Isobutyl Alcohol	12.80	100.0	--- U
59. Methacrylonitrile	1.93	100.0	--- U
60. Methyl Methacrylate	0.25	30.0	--- U
61. Naphthalene	0.47	10.0	--- U
62. Propionitrile	3.26	150.0	--- U
63. 1,2,4-Trichlorobenzene	0.50	10.0	--- U
64. Acetonitrile	36.29	55.0	--- U
65. Tetrahydrofuran	0.39	1.0	1.80

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 D **Week: 48**

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH NC 27603

(919) 418-4375

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																		
pH CHECK (LAB)																		
CONTAINER TYPE, P/G	P	P	P	P	P	P		G	G	G	G	G	G	G	G	G		
CHEMICAL PRESERVATION	A	D	A	F	A	A		E	E	A	A	A	A	E	A	A		
PARAMETERS/TESTS	Field pH	Cyanide	Metals	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8151A Landfill	8151A Duplicate		

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Cyanide	Metals	Sulfide	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	EPA 8270D	8270D Dup. 1	EPA 8081B	8081B Duplicate	8260B App. II	8151A Landfill	8151A Duplicate
MW-9A	11-10-15	1345		20	4	G		G		G	G	G	G	G							
MW-10	11-10-15	1205		21	4	G		G		G	G	G	G	G							
MW-11	11-10-15	1220		23	4	G		G		G	G	G	G	G							
MW-13	11-10-15	1300		22	4	G		G		G	G	G	G	G							
MW-12s	11-10-15	1245		24	12	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G
MW-14S	11-10-15	1325		21	4	G		G		G	G	G	G	G							
Trip Blank	11-10-15				2									G					G		

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY (SEAL) MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print) Bobby Fox / Tom Beasley

SAMPLES RECEIVED IN LAB AT 0-2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	11-10-15 2:48	[signature]	11/10/15 2:48
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 295787

FORM #5

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858
environment1inc.com
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 D **Week: 48**

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
SCS ENGINEERS
322 CHAPANOKE ROAD, SUITE 101
RALEIGH NC 27603

(919) 418-4375

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field Parameter															
						P															
						A															
MW-9A	~~10-1~~ 11-10-15 BF	1345		20	4	G															
MW-10	11-10-15	1205		21	4	G															
MW-11	11-10-15	1220		23	4	G															
MW-13	11-10-15	1300		22	4	G															
MW-12s	11-10-15	1245		24	12	G															
MW-14S	11-10-15	1315		21	4	G															
Trip Blank	11-10-15				2																

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS/TESTS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE/NAOH
G - NA THIOSULFATE

CLASSIFICATION:

☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY (SEAL) MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY: (Please Print)
Bobby Fox / Tom Beasley

SAMPLES RECEIVED IN LAB AT 0.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	11-10-15 2:45	[signature]	11/10/15 248
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

№ 295786

ATTACHMENT 2

Environmental Monitoring Reporting Form and

Electronic Data Deliverable (EDD; Electronic File Only)

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

SCS Engineers, PC

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Marta VanDussen Phone: 828-285-8951

E-mail: mvandussen@scsengineers.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
C&D Landfill Phases 1 & 2	802 Recycling Lane, Greenville, Pitt County, North Carolina	74-07	.0500	November 10, 2015

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

David Garrett | P.G. | 919-418-4375

Facility Representative Name (Print) | Title | (Area Code) Telephone Number

Digitally signed by dgarrett@scsengineers.com
DN: cn=dgarrett@scsengineers.com
Reason: Regulatory submittal
Date: 2016.02.16 15:43:16 -05'00'

02/16/2016 | Affix NC Licensed/ Professional Geologist Seal

Signature | Date

322 Chapanoke Road, Suite 101, Raleigh, North Carolina 27603

Facility Representative Address

C-1837

NC PE Firm License Number (if applicable effective May 1, 2009)

NORTH CAROLINA LICENSED SEAL 2837 GEOLOGIST DAVID GARRETT

Revised 6/2009