WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
PHASE II ASSESSMENT MONITORING
OCTOBER 2014 SAMPLING EVENT

S&ME Project No. 1584-98-081C

Prepared For:

The City of Greensboro

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1. EXECUTIVE SUMMARY

Twelve monitoring wells and five stream locations which monitor the Phase II portion of the White Street Landfill were sampled between October 2 and October 7, 2014. Twelve wells (II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, II-12, MW-13 and MW-14) comprise the groundwater monitoring system for the Phase II solid waste disposal area of the landfill. Monitoring well MW-13 serves as a background well for both the Phase I and the Phase II areas. Monitor well MW-14 serves as a background well for Phase II. All sampling was conducted according to North Carolina Solid Waste Management Guidelines. Samples were analyzed by a North Carolina certified laboratory. Samples collected from the Phase II area were submitted for analysis using the North Carolina Appendix II assessment monitoring list. Samples from surface water locations SW-1, SW-2, SW-3, SW-4, and SW-5 were analyzed for the federal Appendix I constituents.

GROUNDWATER QUALITY

During the October 2014 compliance monitoring event, the following NCAC 2L groundwater quality standards (2L Standards) were exceeded.

Volatile Organic Compounds:

- Vinyl chloride was detected at 2.6 μg/L at well II-2. The 2L Standard for vinyl chloride is set at 0.03 μg/L.
- 1,1-Dichloroethane was detected at a reported concentration of 8.4 μg/L in monitoring well II-2 and 11 μg/L in monitoring well II-3. The 2L Standard for 1,1-dichloroethane is set at 6 μg/L.
- Benzene was detected at concentrations of 1.1 μg/L, 1.1 μg/L, and 2.0 μg/L in wells II-1, II-3, and II-6 respectively. The 2L Standard for benzene is set at 1 μg/L 2L.
- Tetrachloroethene was detected at 1.3 μg/L at well II-2, which exceeds the corresponding 2L Standard set at 0.7 μg/L.

Inorganic Constituents (Metals):

Groundwater analytical results indicate inorganic constituent's antimony, cobalt, and vanadium were detected with concentrations greater than the Interim Maximum Allowable Concentration (IMAC). S&ME previously prepared an Alternate Source Demonstration (ASD) for metals at the Facility. The ASD demonstrated that antimony, cobalt, and vanadium were naturally occurring in the in-situ soil at the Facility and at sufficient concentrations within the soil to influence groundwater quality. Based on the results of the ASD, the detection of antimony, cobalt and vanadium at concentrations above the IMAC value is not likely due to a release by the Facility, but instead may be attributed to the natural occurrence of these metals in the native, residual soil.

SURFACE WATER QUALITY

Several volatile organic compounds and inorganic constituents were reported in one or more of the samples collected. Based on the sampled locations and the reported concentrations, the compounds detected in the surface water samples likely stem from up-stream, off-site sources.

ADDITIONAL ASSESSMENT ACTIVITIES

During 2010, monitoring well II-3B was installed down-gradient of well II-3, to assess groundwater quality conditions down-gradient of well II-3; however, at a point prior to reaching the compliance boundary. For the groundwater sample collected at well II-3B during October 2014, the analytical results report no volatile organic compounds were detected at concentrations that exceed the corresponding 2L Standards. This is the 7th monitoring event to indicate that the portion of the landfill monitored by well II-3B is currently in compliance with applicable groundwater quality standards. The detection of concentrations greater than the 2L Standards at well II-3 reflects the close proximity of this well to the limits of waste. It is our opinion that the analytical data for well II-3 is informative; however, the proximity of well II-3B to the compliance boundary makes it is a better indicator of groundwater compliance in accordance with the permit.

A Corrective Action Plan (CAP) was prepared by S&ME and approved by the North Carolina Department of Environment and Natural Resources (NCDENR) for Phase II of the White Street Landfill. The CAP specifies phytoremediation coupled with *Monitored Natural Attenuation* (MNA) to restore groundwater quality. CAP related groundwater monitoring activities completed contemporaneously with the October 2014 water quality monitoring event included:

- Collection and analysis of groundwater samples from each of the three CAP specified sentinel monitoring wells, SMW-1, SMW-3, and SMW-4. The October 2014 analytical results indicated that groundwater quality at sentinel wells SMW-1 and SMW-4 met the CAP specified cleanup goals, the 2L Standards. At sentinel well SMW-3 the estimated concentration for vinyl chloride was greater than the CAP specified cleanup goal.

- Monitoring wells II-7, II-7B, and II-1 function as both routine compliance monitoring wells and CAP sentinel monitoring wells. The October 2014, groundwater analytical results for monitoring wells II-7 and II-7B indicated that groundwater quality at these points met the CAP specified cleanup goals, the 2L Standards. Only monitoring well II-1 exhibited groundwater quality which currently does not meet the CAP specified cleanup goals, the 2L Standards.

- Groundwater samples were obtained from a select group of monitoring wells utilized to evaluate the MNA component of the CAP. The collected samples were analyzed in the field and/or in the laboratory for MNA indicator parameters.

These CAP related items are briefly discussed in this report; however, these CAP monitoring activities and associated findings will be discussed in greater detail in a separate report.

2. INTRODUCTION

White Street Landfill is a Solid Waste Management Facility (SWMF) located at the north end of White Street in northeastern Greensboro. S&ME, Inc. (S&ME) was contracted by the City of Greensboro to complete this Phase II Appendix II assessment/detection monitoring event. Phase II of the landfill is a closed Municipal Solid Waste (MSW) landfill with an active Construction & Demolition (C&D) landfill piggy backed on top, covered by Solid Waste Permit #41-03. One upgradient monitor well (MW-14), nine (9) downgradient monitoring wells located along the perimeter of the Phase II disposal area, one bedrock monitor well (II-7B), and one background monitoring well (MW-13) located approximately 4,300 feet southwest of the Phase II area were sampled. Five surface water samples were collected from North Buffalo Creek and one of its tributaries in the vicinity of the Facility.

In addition to the routine semi-annual assessment monitoring program activities, groundwater samples were collected and analyzed from the Corrective Action Plan sentinel monitoring wells SMW-1, SMW-3, and SMW-4, and Nature and Extent Study (NES) monitoring well II-3B and II-9.

This report discusses the field procedures, field measurements, analytical results, and presents the statistical evaluation results for the October 2014 water quality monitoring event.

3. SCOPE OF WORK

To complete the scope of work, S&ME completed the following tasks:

- Sampled 12 monitoring wells and five surface water locations.
- Sampled sentinel monitoring wells SMW-1, SMW-3, and SMW-4 and NES wells II-3B and II-9.
- Obtained field values for pH, temperature, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and conductivity at each sample location.
- Collected depth to water measurements during well purging to monitor drawdown.
- Had the samples analyzed for the North Carolina Solid Waste Appendix II constituents by a North Carolina certified laboratory, using State approved methods.
- Had the surface water samples analyzed for the North Carolina Solid Waste Appendix I constituents by a North Carolina certified laboratory, using State approved methods.
- Had the sentinel monitoring wells and NES well samples analyzed for Appendix II constituents by a North Carolina certified laboratory using State approved methods.
- Prepare a groundwater contour map and calculated groundwater flow rates.
- Prepared and submitted reports to the City of Greensboro and the NCDENR.

4. METHODS EMPLOYED

4.1 Monitoring Well Sampling

The groundwater monitoring well sampling took place between October 2 and October 7, 2014. The monitoring well locations are shown on **Figure 1**. A representative from S&ME opened each well and measured the static water level from the top edge of the PVC casing in wells. An electronic water level indicator was used to obtain depth to water measurements. These data are summarized in **Table 1**. The total well depth sounding data reported for the sampling events completed during September 1997 and May 1998 were used to determine the volume of water in wells II-1, II-2, II-3, II-4A[1], II-5, II-6, II-7, II-7B, II-8, II-12, MW-13, and MW-14; where dedicated MicroPurgeTM pumps had been previously installed.

In accordance with the facility's approved Water Quality Monitoring Plan, wells II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-8, II-12, MW-13, and MW-14 were purged using the dedicated Micro Purge pumps. Sentinel monitoring wells SMW-1, SMW-3, and SMW-4 and NES wells II-9 and II-3B were sampled using dedicated Micro Purge pumps. At each well, the purge rate and the drawdown of the water table were monitored as an indicator of how much stress the purging placed on the aquifer. The purge rates were calculated by recording the time required to fill a graduated cylinder. The purging flow rate was approximately 100 milliliters/minute (ml/min.). During purging, the depth to water was periodically monitored and recorded on the groundwater sampling field data sheets. For the Phase II sampling event, the measured drawdown in the sampled wells is generally less than 1 foot.

The purge water from the monitoring wells was monitored in the field for pH, temperature, DO, ORP, and conductivity using a flow-through cell and multi-meter. Typically, a sample was collected when three consecutive readings for each individual field parameter fluctuated by no more than 10 percent, between each equipment volume. The 10% change target stabilization goal was generally reached prior to collection of the groundwater samples. Turbidity was measured separately, with filed measurements less than or equal to 10 NTUs, as a target criteria. Even with the use of low flow sampling methods, turbidity values at some wells remained higher than ideal during purging. Accordingly, some samples were collected based upon professional judgment without meeting the turbidity goal. The field data collected during sampling was recorded on the groundwater sampling field data sheets, which are included in **Appendix I**.

Groundwater samples were collected from the dedicated Teflon tubing at each of the wells with dedicated well sampling pumps. Immediately upon collection, each sample was placed in laboratory supplied containers, packed on ice, and placed under chain-of custody. The sampling technician wore nitrile gloves that were changed between wells to minimize the possibility of cross contamination.

During the October 2104 event Phase II groundwater samples (II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, II-12, MW-13, and MW-14) were analyzed for Appendix II constituents. Sentinel monitoring wells SMW-1, SMW-3, SMW-4 and NES wells II-3B and II-9 were also analyzed for the Appendix II constituents. Analyses were conducted by Environmental Conservation Laboratories, a North Carolina certified laboratory. Laboratory Analytical Reports are attached in **Appendix II.**

4.2 Statistical Analysis of Data

4.2.1 Software

All data were analyzed using *ChemStat 6.2* software package. The *ChemPoint 4.4* database management system was used to input and create the Data files based on the recent and historic laboratory data. The *ChemPoint* database is then converted to ASCII tab delimited file for use by the *ChemStat* software. The following procedures were used to carry out the statistical analyses of the compliance data for each constituent.

4.2.2 Statistical Methods-Groundwater Analyses

In accordance with the NCDENR-Solid Waste Management Rules 15A NCAC 13B, Section 1632, historical upgradient and crossgradient groundwater monitoring data collected from the background groundwater monitoring wells that comprise the Subtitle D monitoring well system were pooled and the analytical results were used to create a statistical baseline for statistically significant increases in constituent concentrations. For this sampling event the facility's chemical database was updated. Since the facility has been conducting the required Assessment Monitoring for an extended period of time and is currently implementing corrective measures the routine statistical analyses were not performed during this event. The statistical methods routinely employed for this monitored unit are used to determine if a statistically significant increase (SSI) in monitored constituents are suggested by the data set. If an SSI is discovered and found to be valid, it would only trigger Assessment Monitoring; which is the monitoring program currently employed for Phase II of the White Street Landfill. Statistical analysis of the data set was last performed during the spring 2014 monitoring event and a full analysis of the data set is planned for the spring 2015 monit2oring event.

4.3 Stream Sampling

Surface water sampling took place on October 1 and 2, 2014. Four stream samples (SW-1, SW-3, SW-4, and SW-5) were collected from North Buffalo Creek, which flows along the northwestern side of the White Street Landfill. One surface water sample (SW-2) was collected from a tributary of North Buffalo Creek. The locations of the stream samples are shown in **Figure 2**.

SW-1 was collected upstream from the landfill near the US Highway 29 Bridge. SW-2 was collected from a southern tributary of North Buffalo Creek just before it joins the main creek west of the landfill entrance. SW-3 was collected downstream of the North Buffalo Wastewater Treatment Plant outfall and upstream of the landfill. SW-4 was collected downstream of the landfill at a USGS gauging station located on North Buffalo Creek about three-quarters of a mile north of the landfill. SW-5 was collected from

North Buffalo Creek immediately downstream of the Phase II landfill disposal area. The surface water samples were collected by immersing laboratory supplied containers in the water to be sampled. After collection, the surface water samples were packed on ice and placed under chain-of-custody. Stream samples SW-1, SW-2, SW-3, SW-4 and SW-5 were analyzed for Appendix I constituents.

5. RESULTS

5.1 Groundwater Analytical Results

5.1.1 Phase II Appendix II Assessment Monitoring

Wells II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, MW-12, MW-13 and MW-14 comprise the monitoring system for the Phase II area. The results of the laboratory analyses for Appendix II constituents in the Phase II area groundwater monitoring wells are summarized in **Tables 2, 3**, **4, 5 and 6.** The complete laboratory reports of the October 2014 sampling event are included in **Appendices I**.

Volatile Organic Compounds:

As summarized in **Table 2**, analytical results from the 12 Phase II monitoring wells indicate thirteen volatile organic compounds were detected during the October 2014 sampling event, at one or more monitoring well locations. Of the detected volatile organic compounds, the following 15A NCAC 2L groundwater quality standards (2L Standards) were exceeded.

- Vinyl chloride was detected at 2.6 μg/L at well II-2. The 2L Standard for vinyl chloride is set at 0.03 μg/L.
- 1,1-Dichloroethane was detected at a reported concentration of 8.4 μg/L in monitoring well II-2 and 11 μg/L in monitoring well II-3. The 2L Standard for 1,1-dichloroethane is set at 6 μg/L.
- Benzene was detected at concentrations of 1.1 μg/L, 1.1 μg/L and 2.0 μg/L in wells II-1, II-3 and II-6 respectively. The 2L Standard for benzene is set at μg/L 2L.
- Tetrachloroethene was detected at 1.3 μg/L at well II-2, which exceeds the corresponding 2L Standard set at 0.7 μg/L.

Semi-Volatile Organic Compounds:

As summarized in **Table 3**, analytical results from the 12 Phase II monitoring wells indicate one semi-volatile organic compound was detected during the October 2014 sampling event at well II-6. The following semi-volatile compound was detected.

- 3 & 4 Methyl phenol was detected at well II-6 with an estimated concentration that is an order of magnitude less than the 2L Standard. The reported concentration is a suspect outlier data point. The source of this suspect anomaly is not known; however, data from the next monitoring event will be used to validate this assumption or confirm the reported detection.

Inorganic Constituents (Metals):

As summarized in **Table 4**, analytical results for samples collected from Phase II groundwater monitoring wells report detections of antimony, barium, beryllium, cadmium, chromium, copper, mercury, nickel, tin, and zinc at one or more monitoring well locations during the October 2014 sampling event. Each of the reported concentrations of these inorganic constituents was below their corresponding NCAC 2L groundwater standard or Interim Maximum Concentrations (IMAC) value with the exception of antimony, cobalt, and vanadium.

Antimony, cobalt, and vanadium were detected in the groundwater samples collected from one or more wells during this monitoring event. Each of their "J" flag estimated concentrations and quantified concentrations exceed the corresponding IMACs. S&ME previously prepared an Alternate Source Demonstration (ASD) for metals at the Facility. The ASD demonstrated that antimony, cobalt, and vanadium are naturally occurring in the in-situ soil at the Facility and at sufficient concentrations within the soil to influence groundwater quality. The reported concentrations of antimony, cobalt, and vanadium during the October 2014 sampling event are below the predicted groundwater concentrations calculated for antimony, cobalt, and vanadium using a default dilution attenuation factor (DAF). Accordingly, the detection of antimony, cobalt, and vanadium above their respective IMAC values may be attributed to the natural occurrence of these metals in the native residual soil. This conclusion is in part supported by detection of vanadium in background well MW-13.

Replacement compliance well II-4A was sampled for the third time during this monitoring event. When compared with historic data for well II-4, replacement well II-4A exhibited lower field turbidity values and the detected concentrations for the Appendix II inorganic parameters report notably lower concentrations, some an order of magnitude lower than those previously report for well II-4. These observations support our prior stated theory that the higher than normally turbidity observed at well II-4 was negatively influencing the analytical results for certain metals, and that the prior elevated metals concentrations were not representative of the monitored aquifer.

Pesticides/Herbicides:

As summarized in **Table 5**, no Appendix II organochlorine pesticides were detected above the method detection limits or the solid waste section limits during this monitoring event.

As summarized in **Table 6**, no Appendix II chlorinated herbicides were detected above the method detection limits or the solid waste section limits during this monitoring event.

Other Targeted Appendix II Parameters:

For the groundwater samples collected, no target polychlorinated biphenols (PCBs), or cyanide was detected above the method detection limits or the solid waste section limits during this monitoring event. Sulfide was detected only at well II-5. There is no 2L Standard for sulfide.

5.2 Hydraulic Conductivity

In-situ hydraulic conductivity tests were performed by BPA Environmental and Associates Inc. (BPA) on wells I-5, II-1, II-2, II-3, II-4, II-5 and MW-13 on February 2-5, 1996. The data from these tests yielded hydraulic conductivity values ranging from 0.042 feet/day in II-5 to 0.380 feet/day in II-3. A complete discussion of the test methods and calculations was presented in BPA's February 1996 report "In-Situ Hydraulic Conductivity Testing, White Street Landfill, Greensboro, North Carolina". In situ hydraulic conductivity tests were performed by HDR Engineering, Inc. on monitoring wells II-6, II-7, II-8 and MW-14 in the fall of 1995. In-situ hydraulic conductivity tests were performed by S&ME on monitoring well II-4A in the fall of 2013. The hydraulic conductivity's determined ranged from 0.221 feet/day at well II-6 to 2.353 feet/day in well II-8. These data were used to calculate groundwater flow velocities across the site.

5.3 Groundwater Flow Direction and Rate

The static water levels in the Phase II monitoring wells were measured during October 2014. The depth to the water table ranged from 10.01 to 30.92 feet below the top of well casing on these dates. Groundwater and well casing elevation data are presented in **Table 1**. A groundwater contour map was constructed using the data collected during October 2014 and is presented as **Figure 3**. The groundwater gradient at each well was calculated assuming a constant groundwater gradient along the flow line between adjacent groundwater elevation contours or between the well and the nearest contour. Groundwater flow lines were drawn through each well based upon the groundwater elevation data collected during this monitoring event. The groundwater elevation data collected during this monitoring event indicates that the groundwater beneath Phase II generally flows toward the northwest, toward Buffalo Creek. This is, in general, consistent with the results from previous monitoring events.

Based on a variation of Darcy's Law, the rate of groundwater movement within the regolith aquifer was calculated at each monitoring well using the following equation:

$$V = \frac{Ki}{N}$$

Where
V = velocity (ft/day)
K = hydraulic conductivity (ft/ft)
i = groundwater gradient (ft/ft)
n =effective porosity (dimensionless)

Calculated hydraulic conductivity and gradient values and estimated effective porosity values for each well were used in the velocity calculations. The 20 percent effective porosity value is based on porosity and specific yield versus grain size distribution relationships presented in Fetter (1988), and is typical of the types of soils (predominantly silts and sandy silts with some clays) comprising the regolith at the landfill. The calculated groundwater velocities ranged from 0.005 feet/day to 0.235 feet/day and are summarized in **Table 7**.

5.4 Surface Water

Five surface water samples were collected between the October 1 and 2, 2014. The results of the laboratory analyses for Appendix I constituents in the surface water samples

are summarized in **Tables 8** and **9.** Appendix II contains the complete laboratory reports.

- Methylene Chloride was detected at "J" flagged concentrations of 0.77 μg/L in sample SW-5, which is less than the NCAC 2B surface water standard.
- Chloroform was detected at "J" flagged concentrations in surface water samples SW-1, SW-3, and SW-4. The estimated concentrations were less than the corresponding NCAC 2B standard of 5.6 μg/L.
- Antimony, arsenic, barium, cadmium, chromium, lead, and nickel were reported at quantified or estimated "J" flagged values at one or more sampled locations; however, the reported concentrations are less than the corresponding NCAC 2B standards.
- Cobalt and zinc were reported at sample locations SW-1 and SW-3 at concentrations greater than the corresponding NCAC 2B standards.
- Copper was detected at sample location SW-1, at a concentration greater than the corresponding NCAC 2B standard.
- Vanadium was reported at estimated "J" flagged values at one or more sampled locations. Currently there is no NCAC 2B standard for vanadium.

Based on the sampled locations and the reported concentrations, the compounds detected in the surface water samples likely stem from up-stream, off-site sources.

5.5 Quality Assurance

A qualitative review of the data was performed to verify that the detected concentrations in the laboratory report were of known quality. A formal, quantitative data validation was not performed. Laboratory-assigned data qualifiers were evaluated to verify that rejected or unsupportable data were not included in the dataset. Quality control data provided in the laboratory reports were also reviewed. No rejected or otherwise unacceptable quality data were reported from the laboratory.

A duplicate sample was collected from monitoring well II-2, as "Duplicate II," and analyzed for the Appendix II constituents. No target semi-volatile organic compounds, organochlorine pesticides, chlorinated herbicides, or poly biphenyl compounds were detected in either sample suggesting good method precision. A comparison of the two datasets reveals that the detected compounds and the concentrations reported for sample II-2 show good correlation with the duplicate sample results. This finding suggests good method precision.

Each of the monitoring wells in Phase II were sampled using dedicated micro-purge pumps. Therefore, no equipment rinse samples were collected for analyses. Trip blank samples accompanied the sample bottles from the time they left the laboratory until they returned to the laboratory. The trip blank sample for the October 2014 monitoring event was analyzed for Appendix II volatile organic constituents. Laboratory QC samples were analyzed for all constituents included in this sampling event. The results of the duplicate, trip blank, and laboratory QC sample analyses are included in Appendix II. The NCDENR Environmental Monitoring Reporting Form is included in **Appendix III**.

6. CAP MONITORING ACTIVITIES

Additional Groundwater Quality Monitoring

The following additional investigations were conducted contemporaneously with the October 2014, semi-annual compliance monitoring event.

1. In support of the Corrective Action Plan (CAP) developed and implemented for Phase II, groundwater samples were collected at Sentinel monitoring wells SMW-1, SWM-3, SMW-4, and NES monitoring well II-9 and submitted for laboratory analysis for Appendix II constituents.
2. In support of the CAP developed and implemented for Phase II, groundwater samples were collected at monitoring wells II-1, II-9, SMW-3, and MW-14 and submitted for laboratory analysis using various analytical methods, to measure certain monitored natural attenuation (MNA) indicator parameters.
3. To further evaluate and validate groundwater quality in the region down-gradient of compliance well II-3, a groundwater sample was collected at monitoring well II-3B and submitted for analysis for Appendix II constituents.

The monitoring well locations are depicted on **Figure 4**. Complete laboratory reports are included in **Appendix IV**.

The following provides a brief summary of the analytical results.

Sentinel Monitoring Wells and NES Well II-9

No Appendix I volatile organic constituents were detected at Sentinel monitoring wells SMW-1 and SMW-4. This finding suggests that the areas of concern represented by these well are compliant with the CAP specified groundwater clean-up goals.

During this event, 1,1-Dichloroethane and vinyl chloride were detected in NES well II-9 at concentrations greater than the corresponding 2L Standards. At sentinel well SMW-3 only the concentration of vinyl chloride is greater than the corresponding 2L Standard. Sentinel well SMW-3 is located along the estimated flow path for shallow groundwater migrating from NES well II-9 toward the Compliance Boundary. Therefore, the analytical results for sentinel well SMW-3 suggest that the areas of concern represented by this well has not achieved the CAP specified groundwater clean-up goals.

Tables IV-1A, IV-1B, IV-1C, IV-1D, IV-1E contained in **Appendix IV**, provides a summary of recent Appendix I volatile organic constituent analytical results for wells SME-1, SMW-3, SMW-4 and II-9, as well as II-7 and II-7B. The tables also summarize the data for the companion wells, located along the individual groundwater flow path, between a sentinel well and limits of waste.

MNA Monitoring

MNA parameters were collected and measured in groundwater samples collected at wells II-1, II-9, SMW-3 and MW-14. The data collected is being complied and examined as indicator that MNA processes are occurring in portions of the shallow aquifer monitored by these wells. **Tables IV-2A, IV-2B, IV-2C, and IV-2D** contained in **Appendix IV**, provides a summary of the October 2014 MNA parameters; however, the MNA assessment will be presented and discussed in detail in a future Corrective Action Evaluation Report.

Assessment Well II-3B

No Appendix I volatile organic constituents were detected above the corresponding 2L Standards at assessment well II-3B. Well II-3B is located along the estimated flow path for shallow groundwater migrating from the landfill toward monitoring well II-3, and further down-gradient toward Buffalo Creek and the compliance boundary. The analytical results for well II-3B confirm the prior groundwater quality assessment findings. The data suggests that shallow groundwater migrating from well II-3, achieves compliance with the 2L Standards prior to reaching the point of compliance. Assessment well II-3B is located in a position that is a better measure of groundwater compliance for this portion of the monitored unit, rather than the location of well II-3. **Tables VI-3A and VI-3B**, contained in **Appendix VI**, provides a summary of recent Appendix I constituent analytical results for wells II-3 and II-3B.

7. REFERENCES

Fetter, C. W., 1988, Applied Hydrogeology, New York; Macmillian Publishing Company, 1988, 592 pp.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (November 8, 1993); from the Environmental Management Commission Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200 (April 1, 1991); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, subchapter 13B, Solid Waste Management, Section .1600 (January 1, 1997).

TABLES

TABLE 1
GROUNDWATER ELEVATION DATA SUMMARY
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Well No.	Type	Elevation TOC (feet)	Depth of Well (feet)	Static Water Levels			
				September 2014		April 2014	
				DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
II-1	Compliance	702.78	26.50	17.11	685.67	13.15	689.63
II-2	Compliance	704.59	32.24	20.89	683.70	18.08	686.51
II-3	Compliance	699.37	32.45	18.11	681.26	16.20	683.17
II-3B	NES	694.49	27.70	14.51	679.98	13.05	681.44
II-4A	Compliance	707.25	28.72	16.31	690.94	7.27	699.98
II-5	Compliance	722.01	15.96	10.44	711.57	6.37	715.64
II-6	Compliance	704.39	20.57	15.09	689.30	8.96	695.43
II-7	Compliance	697.75	27.54	15.11	682.64	13.16	684.59
II-7B	NES	700.86	101.50	17.44	683.42	16.78	684.08
II-8	Compliance	717.76	34.95	10.01	707.75	8.71	709.05
II-9	NES	696.78	25.10	13.02	683.76	8.98	687.80
II-10	NES	703.78	23.40	NG	--	NG	--
II-11	NES	701.63	26.60	NG	--	NG	--
II-12	Compliance	699.80	22.90	12.76	687.04	9.29	690.51
SMW-1	CAP-Sentinel	692.87	18.40	11.41	681.46	7.27	685.60
SMW-3	CAP-Sentinel	694.16	25.00	11.74	682.42	9.44	684.72
SMW-4	CAP-Sentinel	697.43	23.90	12.63	684.80	5.71	691.72
MW-13	Compliance	741.24	33.78	23.34	717.90	18.24	723.00
MW-14	Compliance	786.65	34.28	30.92	755.73	25.05	761.60

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by BPA Environmental & Engineering, Inc.
DTGW = Depth to Groundwater
Elevation = calculated groundwater elevation
NG = Not Gauged

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - OCTOBER 2014
DETECTED VOLATILE ORGANIC COMPOUNDS
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

	Compliance Wells												Background Wells		NC SWSL	NCAC 2L
Compound	**II-1**	**II-2**	**II-3**	**II-3B**	**II-4A**	**II-5**	**II-6**	**II-7**	**II-7B**	**II-8**	**II-12**	**DUP II**	**MW-13**	**MW-14**		**std.**
Vinyl Chloride	ND	**2.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.2**	ND	ND	1	0.03
1,1-Dichloroethane	**0.53 J**	**8.4**	**11**	ND	**1.2 J**	ND	ND	ND	ND	ND	ND	**8.7**	ND	ND	5	6
cis 1,2-Dichloroethene	**1.1 J**	**21**	**0.74 J**	ND	ND	ND	ND	ND	ND	ND	ND	**23**	ND	ND	5	70
Benzene	**1.1**	ND	**1.1**	ND	**0.41 J**	ND	**2.0**	ND	ND	ND	ND	ND	ND	ND	1	1
Tetrachloroethene	ND	**1.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Trichloroethene	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND	ND	1	3
Tetrahydrofuran	**13**	ND	ND	ND	**11**	ND	**29**	ND	ND	**9.4**	ND	ND	ND	ND	ne	ns
Acetone	ND	ND	ND	ND	ND	ND	**16 J**	ND	ND	ND	ND	ND	ND	ND	100	6000
Chlorobenzene	**4.3**	**0.72 J**	**0.45 J**	ND	**1.5 J**	ND	**5.8**	ND	ND	**2.2 J**	ND	**0.96 J**	ND	ND	3	50
Naphthalene	ND	ND	ND	ND	ND	ND	**2.5 J**	ND	ND	ND	ND	ND	ND	ND	10	6
Total Xylenes	ND	ND	ND	ND	ND	ND	**1.9 J**	ND	ND	ND	ND	ND	ND	ND	5	500
1,2-Dichlorobenzene	**0.61 J**	ND	ND	ND	ND	ND	**0.46 J**	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	**8.2**	**1.3**	ND	ND	**0.96 J**	ND	**3.8**	ND	ND	ND	ND	**1.6**	ND	ND	1	6

The table only list compounds detected during this monitoring event

NC SWSL= ***North Carolina Solid Waste Section Limit***
ND = ***compound not detected above NC SWSL***
NA = ***compound not analyzed during this event***
NCAC 2L stds. = ***15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater***
J = ***Parameters are estimated values between the detection limit and the NC SWSL.***
JB = ***analyte detected in method blank and at a concentrations between the detection limit and the NC SWSL***
ns = ***no corresponding NCAC 2L groundwater quality standard***
ne = ***no corresponding NC SWSL***
all concentrations reported in micrograms per liter (ug/L)
Quantities highlighted in orange were detected above the 2L standards

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - OCTOBER 2014
DETECTED SEMI-VOLATILE ORGANIC COMPOUNDS (METHOD 8270)
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Compliance Wells												Background Wells		NC SWSL	NCAC 2L	
	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-12	DUP II	MW-13	MW-14		stds.	IMAC
3 & 4 Methylphenol	ND	ND	ND	ND	ND	ND	**1.6 J**	ND	ND	ND	ND	ND	ND	ND	10	40	

NC SWSL= ***North Carolina Solid Waste Section Limit***
ND = ***compound not detected above NC SWSL***
NA = ***compound not analyzed during this event***
NCAC 2L stds. = ***15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater***
**** IMAC =*** ***15A NCAC 2L Groundwater Interim Maximum Allowable Concentration (IMAC)***
ns = ***no corresponding NCAC 2L groundwater quality standard, Groundwater Quality Standard, or SWSL***
all concentrations reported in micrograms per liter (ug/L)
Quantities highlighted in orange were detected above the 2L standards
Quantities highlighted in orange were detected above the NC GWP standards

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - OCTOBER 2014
DETECTED INORGANIC CONSTITUENTS
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Compliance Wells												Background Wells		NC SWSL	NCAC 2L stds.	*IMAC
	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-12	DUP II	MW-13	MW-14			
Antimony	**0.296 J**	ND	**0.293 J**	ND	ND	ND	**0.278 J**	ND	ND	ND	ND	**1.13 J**	ND	ND	6	ns	1
Barium	**446**	**53.8 J**	**197**	**156**	**182**	**94.0 J**	**382**	**159**	**11.2 J**	**142**	**384**	**53.5 J**	**88.3 J**	**18.5 J**	100	700	
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.102 J**	1	ns	4
Cadmium	ND	ND	ND	ND	ND	ND	**0.430 J**	ND	ND	**0.502 J**	ND	ND	ND	**0.842 J**	1	2	
Chromium	**4.79 J**	ND	**1.57 J**	ND	**1.94 J**	ND	**3.92 J**	ND	ND	**1.71 J**	**2.17 J**	ND	ND	ND	10	10	
Cobalt	**58.5**	ND	**12.3**	**1.42 J**	**1.33 J**	**11.0**	**29.3**	**1.63 J**	ND	**1.87 J**	**1.65 J**	ND	ND	ND	10	ns	1
Copper	**14.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	1000	
Mercury	ND	ND	**0.443 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	1	
Nickel	**26.2 J**	ND	**11.7**	**3.68 J**	**25.9 J**	**2.99 J**	**54.3**	**4.07 J**	ND	**37.7 J**	**6.97 J**	ND	ND	ND	50	100	
Tin	**4.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns	2000
Vanadium	ND	**2.28 J**	ND	ND	**1.87 J**	ND	ND	ND	**3.45 J**	**2.91 J**	**3.42 J**	**1.96 J**	**3.32 J**	ND	25	ns	0.3
Zinc	**16.5**	**4.05 J**	**4.79 J**	**4.52 J**	**4.79 J**	**10.7**	ND	**4.39 J**	ND	**4.60 J**	**5.60 J**	ND	ND	**7.21 J**	10	1000	

The table only list compounds detected during this monitoring event

NC SWSL= ***North Carolina Solid Waste Section Limit***
ND = ***compound not detected above NC SWSL***
NCAC 2L stds. = ***15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater***
**** IMAC =*** ***15A NCAC 2L Groundwater Interim Maximum Allowable Concentration (IMAC)***
J = ***Parameters are estimated values between the detection limit and the NC SWSL.***
ns = ***no corresponding NCAC 2L groundwater quality standard***
all concentrations reported in micrograms per liter (ug/L)
Quantities highlighted in orange were detected above the 2L standards
Blue highlights indicate a measurement higher than the NC Interim Maximum Allowable Concentrations (IMAC)

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL - OCTOBER 2014
DETECTED ORGANOCHLORINE PESTICIDES (METHOD 8081B)
DETECTED POLCHLORINATED BIPHENYLS (METHOD 8082A)
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Compliance Wells												Background Wells		NC SWSL	NCAC 2L stds.	*IMAC
	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-12	DUP 2	MW-13	MW-14			
Organchlorine Pesticides by Method 8081B	No Target Analytes Detected above SWSL																
Compound	**Compliance Wells**												**Background Wells**		**NC SWSL**	**NCAC 2L stds.**	***IMAC**
	II-1	**II-2**	**II-3**	**II-3B**	**II-4A**	**II-5**	**II-6**	**II-7**	**II-7B**	**II-8**	**II-12**	**DUP 2**	**MW-13**	**MW-14**			
Polychlorinated Biphenyls by Method 8082A	No Target Analytes Detected above SWSL																

NC SWSL= North Carolina Solid Waste Section Limit
ND = compound not detected above NC SWSL
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
**** IMAC = 15A NCAC 2L Groundwater Interim Maximum Allowable Concentration (IMAC)***
all concentrations reported in micrograms per liter (ug/L)

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - OCTOBER 2014
DETECTED CHLORINATED HERBICIDES (METHOD 8151A)
SULFATE (METHOD SM18 4500-S D)
CYANIDE - TOTAL (METHOD 9014)
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Chlorinated Herbicde Comounds by Method 8151A	Compliance Wells												Background Wells		NC SWSL	NCAC 2L stds.
	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-12	DUP 2	MW-13	MW-14		
All Target Compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	Compliance Wells												Background Wells		NC SWSL	NCAC 2L stds.
	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-12	DUP 2	MW-13	MW-14		
Cyanide (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	70
	Compliance Wells												Background Wells		NC SWSL	NCAC 2L stds.
	II-1	II-2	II-3	II-3B	II-4A	II-5	II-6	II-7	II-7B	II-8	II-12	DUP 2	MW-13	MW-14		
Sulfide	ND	ND	ND	ND	ND	**11 J**	ND	ND	ND	ND	ND	ND	ND	ND	1000	NS

The table only list compounds detected during this monitoring event

NCAC 2L stds. = ***15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater***

NC SWSL= ***North Carolina Solid Waste Section Limit***

ns = ***no corresponding NCAC 2L groundwater quality standard***

all concentrations reported in micrograms per liter (ug/L)

ND = ***compound not detected above NC SWSL***

Quantities highlighted in orange were detected above the 2L standar

TABLE 7
GROUNDWATER VELOCITY DATA - OCTOBER 2014
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Well No.	Hydraulic Conductivity (K = feet/day)	Porosity (n = %)	Gradient (I = feet/foot)	Groundwater Velocity (V= feet/day)
II-1	0.119	0.2	0.023	0.014
II-2	0.329	0.2	0.010	0.016
II-3	0.380	0.2	0.022	0.041
II-4A	0.295	0.2	0.038	0.056
II-5	0.042	0.2	0.020	0.004
II-6	0.221	0.2	0.017	0.019
II-7	1.077	0.2	0.012	0.062
II-8	2.353	0.2	0.020	0.235
MW-14	0.740	0.2	0.020	0.074
SMW-1	0.858	0.2	0.013	0.055
SMW-3	0.630	0.2	0.012	0.037
SMW-4	0.469	0.2	0.027	0.063

Notes: Hydraulic Conductivity's from slug test data by BPA Environmental & Engineering Inc.
HDR Engineering, S&ME Inc.
Porosity values from published literature, based on soil types
Gradients are based upon groundwater elevation data from this monitoring event
Velocity calculated using V = KI/n

TABLE 8
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - OCTOBER 2014
DETECTED VOLATILE ORGANIC COMPOUNDS
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations					15A NCAC 2B Standards*	NC SWSL
	SW-1 up-stream (ug/L)	SW-2 up-stream (ug/L)	SW-3 up-stream (ug/L)	SW-4 down-stream (ug/L)	SW-5 down-stream (ug/L)	(ug/L)	(ug/L)
Methylene Chloride	ND	ND	ND	ND	**0.77 J**	4.6	1
Chloroform	**1.2 J**	ND	**0.95 J**	**1.0 J**	ND	5.6	5

The table only list compounds detected during this monitoring event

NC SWSL= ***North Carolina Solid Waste Section Limit***

BQL = ***compound not detected above NC SWSL***

** =* ***Title 15A NCAC 2B Standards for Class B, C surface water***

J = ***Parameters are estimated values between the detection limit and the NC SWSL.***
and the NC SWSL

ns = ***Title 15A NCAC 2B provides no established standard for these constituents***

Quantities highlighted in orange were detected above the 2B standards

TABLE 9
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS - OCTOBER 2014
DETECTED METALS
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations					15A NCAC 2B Standards*	NC SWSL
	SW-1 up-stream (ug/L)	SW-2 up-stream (ug/L)	SW-3 up-stream (ug/L)	SW-4 down-stream (ug/L)	SW-5 down-stream (ug/L)	(ug/L)	(ug/L)
Antimony	**0.526 J**	ND	**0.378 J**	**0.268 J**	**0.267 J**	5.6	6
Arsenic	**6.11 J**	ND	ND	ND	ND	10	10
Barium	**112**	**45.9 J**	**22.3 J**	**24.4 J**	**25.1 J**	1000	100
Cadmium	**0.661 J**	ND	ND	ND	ND	0.4	1
Chromium	**20.6 B**	**2.13 JB**	**13.4 B**	**2.50 JB**	**2.70 JB**	50	10
Cobalt	**8.95 J**	ND	**4.56 J**	**2.46 J**	**2.45 J**	3	10
Copper	**30.9**	**1.82 J**	**6.82 J**	**5.42 J**	**5.30 J**	7**	10
Lead	**21.1**	ND	ND	ND	ND	25	10
Nickel	**7.25 J**	ND	**23.7 J**	**9.96 J**	**10.6 J**	25	50
Vanadium	**42.2**	ND	**3.14 J**	**2.66 J**	**2.26 J**	ns	25
Zinc	**144**	**3.94 J**	**63.6**	**34.9**	**34.0**	50**	10

The table only list compounds detected during this monitoring event

NC SWSL= North Carolina Solid Waste Section Limit

ND = compound not detected above NC SWSL

**** = Title 15A NCAC 2B Standards for Class B, C surface water***

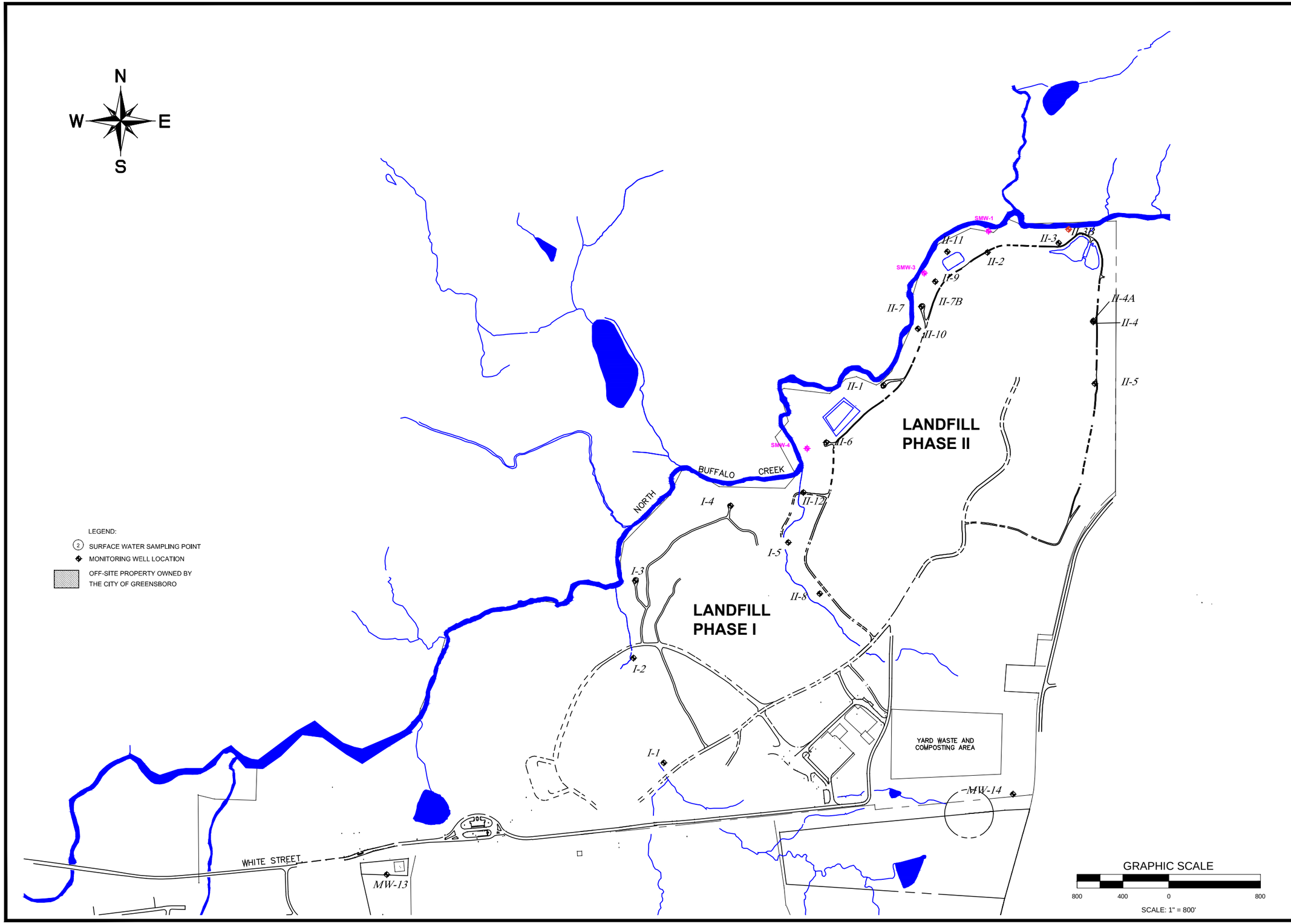
***** = Freshwater Standard***

J = Parameters are estimated values between the detection limit and the NC SWSL.

ns = Title 15A NCAC 2B provides no established standard for these constituents

Quantities high Quantities highlighted in orange were detected above the 2L standards

FIGURES



SITE BASE MAP
PHASE II
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE:	AS SHOWN
JOB NO.	1584-98-081B
DRAWN BY:	DSB/RDM
DATE:	OCTOBER 2013
CHECKED BY:	EQBH
FIGURE NO.	1

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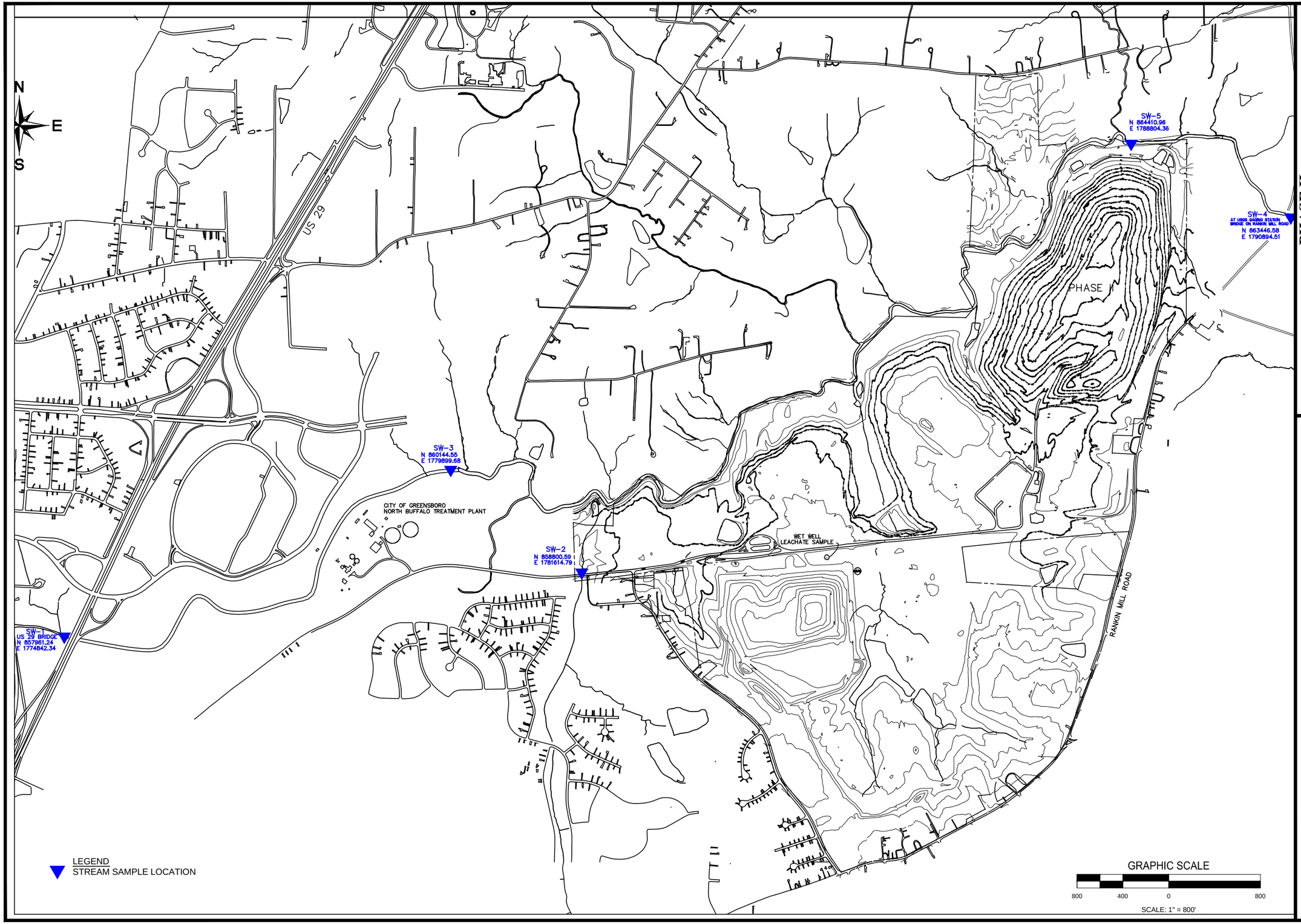

PHASE II
SURFACE WATER SAMPLING LOCATIONS
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: DSB/RDM	CHECKED BY: LE	
JOB NO. 1584-98-081	DATE: DECEMBER 2007	FIGURE NO. 2	

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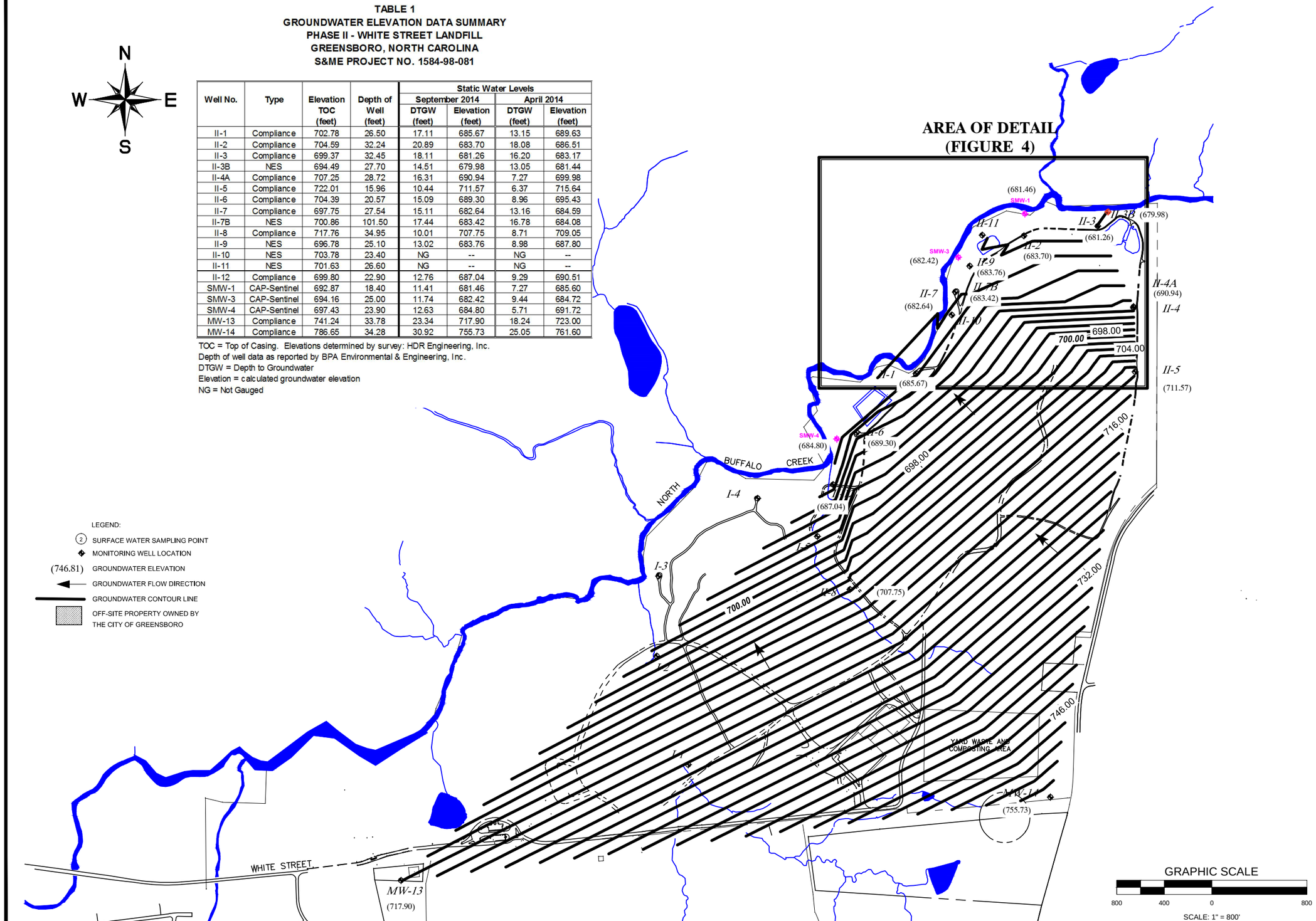
TABLE 1
GROUNDWATER ELEVATION DATA SUMMARY
PHASE II - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Well No.	Type	Elevation TOC (feet)	Depth of Well (feet)	Static Water Levels September 2014 DTGW (feet)	Static Water Levels September 2014 Elevation (feet)	Static Water Levels April 2014 DTGW (feet)	Static Water Levels April 2014 Elevation (feet)
II-1	Compliance	702.78	26.50	17.11	685.67	13.15	689.63
II-2	Compliance	704.59	32.24	20.89	683.70	18.08	686.51
II-3	Compliance	699.37	32.45	18.11	681.26	16.20	683.17
II-3B	NES	694.49	27.70	14.51	679.98	13.05	681.44
II-4A	Compliance	707.25	28.72	16.31	690.94	7.27	699.98
II-5	Compliance	722.01	15.96	10.44	711.57	6.37	715.64
II-6	Compliance	704.39	20.57	15.09	689.30	8.96	695.43
II-7	Compliance	697.75	27.54	15.11	682.64	13.16	684.59
II-7B	NES	700.86	101.50	17.44	683.42	16.78	684.08
II-8	Compliance	717.76	34.95	10.01	707.75	8.71	709.05
II-9	NES	696.78	25.10	13.02	683.76	8.98	687.80
II-10	NES	703.78	23.40	NG	--	NG	--
II-11	NES	701.63	26.60	NG	--	NG	--
II-12	Compliance	699.80	22.90	12.76	687.04	9.29	690.51
SMW-1	CAP-Sentinel	692.87	18.40	11.41	681.46	7.27	685.60
SMW-3	CAP-Sentinel	694.16	25.00	11.74	682.42	9.44	684.72
SMW-4	CAP-Sentinel	697.43	23.90	12.63	684.80	5.71	691.72
MW-13	Compliance	741.24	33.78	23.34	717.90	18.24	723.00
MW-14	Compliance	786.65	34.28	30.92	755.73	25.05	761.60

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by BPA Environmental & Engineering, Inc.
DTGW = Depth to Groundwater
Elevation = calculated groundwater elevation
NG = Not Gauged



GROUNDWATER FLOW MAP
PHASE II
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN
DRAWN BY: DSB/RDM
CHECKED BY: SC
JOB NO. 1584-98-081C
DATE: NOVEMBER 2014
FIGURE NO. 3

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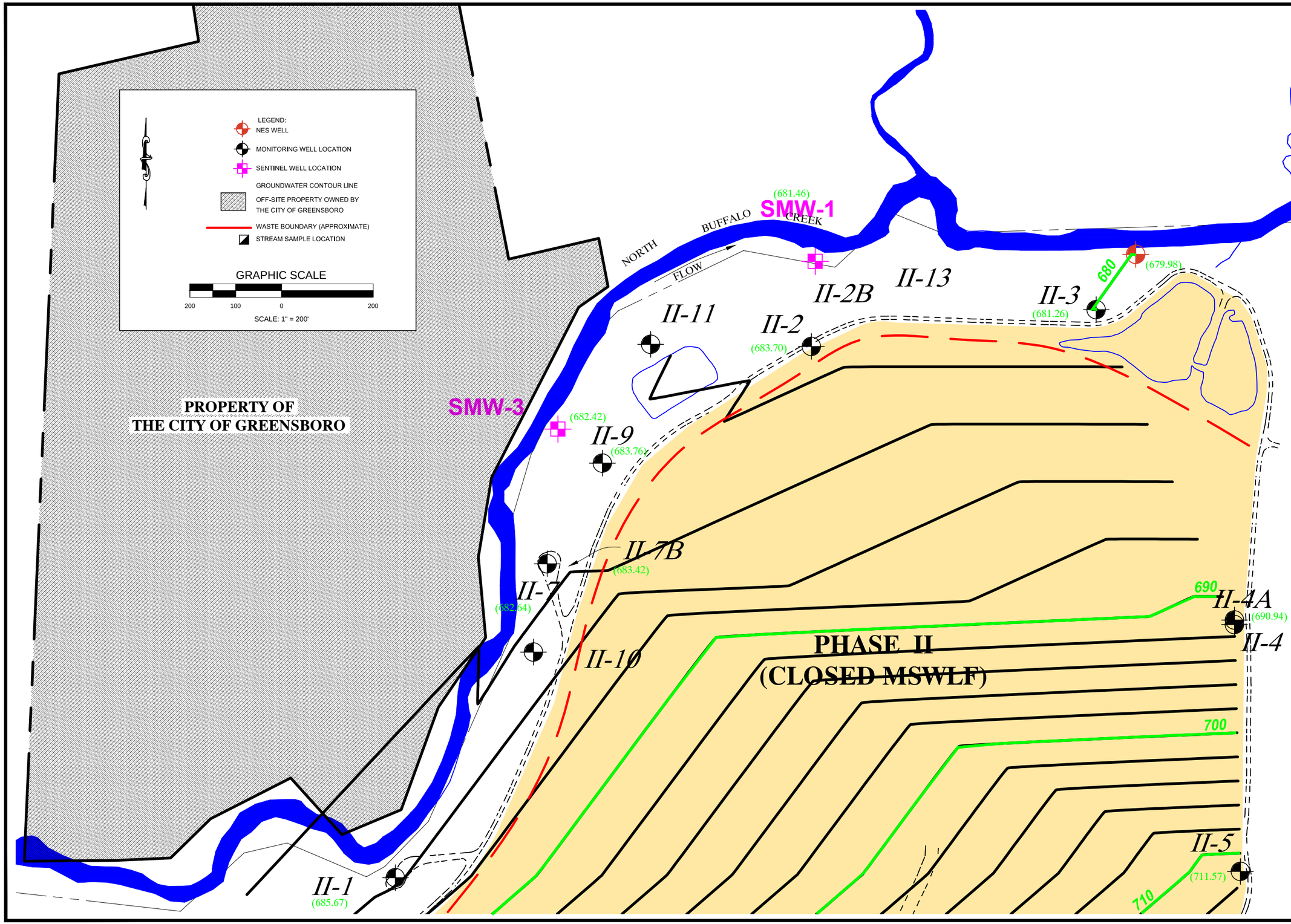

DETAILED SITE MAP
PHASE II
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: DSB/RDM	CHECKED BY: EQBH	
JOB NO. 1584-98-081C	DATE: NOVEMBER 2014	FIGURE NO. 4	

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APPENDIX I
Groundwater Sampling Field Data Sheets

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 06, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II1	Sample Date:	Monday, October 06, 2014
		Sample Time:	1505
Locked?:	Yes: ____ No: x	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	17.11	feet
Depth to well bottom from measuring point:	25.00	feet
Height of water column:	7.89	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 2.5 sec.; Off: 27.5 sec.; Pressure: 18 psi

Purge Time

Start 1325 Stop 1355

Sample Collection Time

Start 1355 Stop 1505

Volume of water in well

2" well:

height: 7.89 x .163 = 1.28607

Ferrous Iron: 3.30 mg/L

Volume of water removed: 4.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1325	10/6/2014							
1330	10/6/2014	20.92	7.44	2.700	-11	3.34	16.72	17.38
1335	10/6/2014	19.58	7.34	3.010	-39	2.03	9.86	17.48
1340	10/6/2014	19.44	7.30	3.160	-47	1.25	8.36	17.51
1345	10/6/2014	19.66	7.28	3.230	-52	0.67	8.03	17.57
1350	10/6/2014	19.77	7.28	3.240	-53	0.64	7.75	17.61
1355	10/6/2014	19.84	7.28	3.250	-54	0.59	7.86	17.62

Final Readings	1355	10/6/2014	19.84	7.28	3.250	-54	0.59	7.86	17.62
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Friday, October 03, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II2	Sample Date:	Friday, October 03, 2014
		Sample Time:	845
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	60 *F

Water Level & Well Data

Depth to water from measuring point:	20.89	feet
Depth to well bottom from measuring point:	29.00	feet
Height of water column:	8.11	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: _____ psi

Purge Time

Start 715 Stop 745

Sample Collection Time

Start 745 Stop 845

Note: Duplicate II taken at this location. (0800 hrs)

Volume of water in well

2" well:

height: 8.11 x .163 = 1.32193

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
715	10/3/2014							
720	10/3/2014	14.85	7.58	1.032	20	3.65	8.63	21.29
725	10/3/2014	14.87	7.56	1.029	23	3.58	7.36	21.30
730	10/3/2014	14.84	7.56	1.031	24	3.52	7.20	21.29
735	10/3/2014	14.90	7.56	1.032	25	3.49	6.94	21.29
740	10/3/2014	14.97	7.54	1.030	25	3.03	7.05	21.30
745	10/3/2014	14.99	7.54	1.029	26	3.11	7.04	21.29

Final Readings	745	10/3/2014	14.99	7.54	1.029	26	3.11	7.04	21.29
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Friday, October 03, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II3	Sample Date:	Friday, October 03, 2014
		Sample Time:	1200
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	18.11	feet
Depth to well bottom from measuring point:	30.00	feet
Height of water column:	11.89	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: 20 psi

Purge Time

Start 1015 Stop 1100

Sample Collection Time

Start 1100 Stop 1200

Volume of water in well

2" well:

height: 11.89 x .163 = 1.93807

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
	1015	10/3/2014							
	1020	10/3/2014	21.85	6.98	0.580	47	2.43	10.32	18.46
	1025	10/3/2014	20.91	6.78	0.517	0	1.72	26.30	18.45
	1030	10/3/2014	20.86	6.74	0.504	-2	1.62	28.00	18.46
	1035	10/3/2014	21.70	6.69	0.493	3	1.7	15.43	18.46
	1040	10/3/2014	22.05	6.69	0.491	5	1.78	12.15	18.45
	1045	10/3/2014	22.54	6.69	0.489	9	1.77	11.16	18.45
	1050	10/3/2014	22.74	6.70	0.488	10	1.66	9.44	18.45
	1055	10/3/2014	22.47	6.71	0.488	12	1.50	9.08	18.47
	1100	10/3/2014	22.10	6.69	0.488	13	1.41	8.69	18.46
Final Readings	1100	10/3/2014	22.00	6.69	0.488	13	1.41	8.69	18.46
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Friday, October 03, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II4A	Sample Date:	Friday, October 03, 2014
		Sample Time:	1550
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	75 *F

Water Level & Well Data

Depth to water from measuring point:	16.31	feet
Depth to well bottom from measuring point:	30.00	feet
Height of water column:	13.69	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.5 sec.

Off: 26.5 sec.

Pressure: 26 psi

Purge Time

Start 1415 Stop 1450

Sample Collection Time

Start 1450 Stop 1550

Volume of water in well

2" well:

height: 13.69 x .163 = 2.23147

Volume of water removed: 7.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1415	10/3/2014							
1420	10/3/2014	23.93	6.91	1.550	15	3.78	10.67	16.42
1425	10/3/2014	23.25	6.92	1.720	2	4.65	7.15	16.43
1430	10/3/2014	24.39	6.92	1.730	-7	3.65	5.68	16.46
1435	10/3/2014	23.96	6.92	1.730	-11	3.61	5.61	16.45
1440	10/3/2014	23.73	6.91	1.720	-12	3.81	5.48	16.44
1445	10/3/2014	23.59	6.91	1.720	-14	3.79	5.81	16.45
1450	10/3/2014	23.49	6.91	1.730	-14	3.85	5.88	16.44

Final Readings	1450	10/3/2014	23.49	6.91	1.730	-14	3.85	5.88	16.44
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Friday, October 03, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II5	Sample Date:	Friday, October 03, 2014
		Sample Time:	1400
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	75 *F

Water Level & Well Data

Depth to water from measuring point:	10.44	feet
Depth to well bottom from measuring point:	16.00	feet
Height of water column:	5.56	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: 15 psi

Purge Time

Start 1220 Stop 1300

Sample Collection Time

Start 1300 Stop 1400

Volume of water in well

2" well:

height: 5.56 x .163 = 0.90628

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1220	10/3/2014							
1225	10/3/2014	25.43	7.03	0.353	-16	3.05	10.84	10.74
1230	10/3/2014	24.47	7.12	0.444	-42	3.29	8.95	10.88
1235	10/3/2014	2404.00	7.15	0.476	-57	3.60	7.16	10.90
1240	10/3/2014	23.85	7.16	0.488	-62	4.11	6.63	10.98
1245	10/3/2014	24.47	7.16	0.504	-67	3.61	6.42	11.03
1250	10/3/2014	24.61	7.1	0.507	-68	3.72	6.79	11.10
1255	10/3/2014	25.04	7.16	0.507	-69	3.11	6.51	11.15
1300	10/3/2014	25.12	7.14	0.509	-69	3.30	6.99	11.19

Final Readings	1300	10/3/2014	25.12	7.14	0.509	-69	3.30	6.99	11.19
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 02, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II6	Sample Date:	Thursday, October 02, 2014
		Sample Time:	1835
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	75 *F

Water Level & Well Data

Depth to water from measuring point:	15.09	feet
Depth to well bottom from measuring point:	17.00	feet
Height of water column:	1.91	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: 16 psi

Purge Time

Start 1645 Stop 1735

Sample Collection Time

Start 1735 Stop 1835

Volume of water in well

2" well:

height: 1.91 x .163 = 0.31133

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1645	10/2/2014							
1650	10/2/2014	21.06	7.25	1.111	-4	5.57	8.07	15.50
1655	10/2/2014	19.59	7.35	2.380	-88	4.48	30.00	15.65
1700	10/2/2014	19.32	7.38	3.000	-106	3.06	51.50	15.73
1705	10/2/2014	19.53	7.40	3.130	-109	3.01	43.20	15.79
1710	10/2/2014	19.54	7.42	3.160	-110	2.83	32.40	15.92
1715	10/2/2014	19.40	7.42	3.180	-111	2.90	27.00	15.98
1720	10/2/2014	19.73	7.43	3.180	-107	2.92	22.30	16.01
1725	10/2/2014	19.78	7.44	3.200	-110	3.13	20.40	16.30
1730	10/2/2014	19.40	7.42	3.180	-111	2.90	20.70	16.03
1735	10/2/2014	19.55	7.44	3.190	-111	3.02	19.80	16.09

Final Readings	1735	10/2/2014	19.55	7.44	3.190	-111	3.02	19.80	16.09
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 02, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II7b	Sample Date:	Thursday, October 02, 2014
		Sample Time:	1440
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	75 *F

Water Level & Well Data

Depth to water from measuring point:	17.44	feet
Depth to well bottom from measuring point:	101.00	feet
Height of water column:	83.56	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 2.5 sec.

Off: 27.5 sec.

Pressure: 52 psi

Purge Time

Start 1305 Stop 1340

Sample Collection Time

Start 1340 Stop 1440

Volume of water in well

2" well:

height: 83.56 x .163 = 13.62028

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1305	10/2/2014							
1310	10/2/2014	22.05	8.97	0.574	-8	5.50	8.63	19.31
1315	10/2/2014	21.50	10.16	0.520	-12	4.27	8.80	19.78
1320	10/2/2014	21.37	10.33	0.516	-11	3.83	8.61	20.05
1325	10/2/2014	21.23	10.37	0.513	-8	3.43	8.85	20.32
1330	10/2/2014	21.14	10.37	0.514	-4	2.90	8.56	20.60
1335	10/2/2014	21.13	10.37	0.513	-4	2.81	7.84	20.95
1340	10/2/2014	21.04	10.39	0.514	-3	2.69	7.54	21.27

Final Readings		10/2/2014	21.04	10.39	0.514	-3	2.60	7.54	21.27
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 02, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II7	Sample Date:	Thursday, October 02, 2014
		Sample Time:	1620
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	15.11	feet
Depth to well bottom from measuring point:	27.00	feet
Height of water column:	11.89	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Blader Pump

Sample Method: Blader Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.; Off: 27.0 sec.; Pressure: 21 psi

Purge Time

Start 1450 Stop 1520

Sample Collection Time

Start 1520 Stop 1620

Volume of water in well

2" well:

height: 11.89 x .163 = 1.93807

Volume of water removed: 4.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1450	10/2/2014							
1455	10/2/2014	22.03	7.00	0.417	158	3.76	7.87	15.31
1500	10/2/2014	20.68	6.83	0.480	167	2.07	6.14	15.38
1505	10/2/2014	20.08	6.72	0.523	172	1.49	5.53	15.43
1510	10/2/2014	20.02	6.67	0.538	175	1.93	5.54	15.48
1515	10/2/2014	19.73	6.64	0.549	180	1.43	4.87	15.49
1520	10/2/2014	19.67	6.62	0.559	182	1.51	4.86	15.51

Final Readings	1520	10/2/2014	19.67	6.62	0.559	182	1.51	4.86	15.51
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 06, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II8	Sample Date:	Monday, October 06, 2014
		Sample Time:	1310
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	55 *F

Water Level & Well Data

Depth to water from measuring point:	10.01	feet
Depth to well bottom from measuring point:	32.50	feet
Height of water column:	22.49	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Blader Pump

Sample Method: Blader Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.5 sec.

Off: 26.5 sec.

Pressure: 30 psi

Purge Time

Start 1135 Stop 1210

Sample Collection Time

Start 1210 Stop 1310

Volume of water in well

2" well:

height: 22.49 x .163 = 3.66587

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1135	10/6/2014							
1140	10/6/2014	21.76	6.97	3.120	22	2.49	6.81	10.22
1145	10/6/2014	22.13	7.03	3.520	-16	1.64	6.33	10.18
1150	10/6/2014	22.42	7.06	3.560	-11	1.07	6.52	10.17
1155	10/6/2014	22.76	7.08	3.560	-3	0.92	6.22	10.20
1200	10/6/2014	22.99	7.10	3.540	9	0.77	6.21	10.17
1205	10/6/2014	22.99	7.13	3.540	17	0.73	5.80	10.21
1210	10/6/2014	22.95	7.14	3.530	19	0.70	6.17	10.19

Final Readings	1210	10/6/2014	22.95	7.14	3.530	19	0.70	6.17	10.19
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 07, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-II12	Sample Date:	Tuesday, October 07, 2014
		Sample Time:	1735
Locked?:	Yes: x No:	Weather:	P/Cloudy
Sampled By:	Gary Simcox	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	12.76	feet
Depth to well bottom from measuring point:	22.80	feet
Height of water column:	10.04	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time

Start 1600 Stop 1635

Sample Collection Time

Start 1635 Stop 1735

Volume of water in well

2" well:

height: 10.04 x .163 = 1.63652

Volume of water removed: 4.0 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1600	10/7/2014							
1605	10/7/2014	22.72	7.71	0.834	-90	2.92	13.48	13.05
1610	10/7/2014	21.73	7.79	0.950	-120	2.61	13.86	13.16
1615	10/7/2014	21.53	7.80	0.958	-121	2.55	12.84	13.27
1620	10/7/2014	21.35	7.81	0.967	-121	2.52	15.46	13.38
1625	10/7/2014	21.00	7.80	0.982	-119	2.90	14.43	13.39
1630	10/7/2014	21.05	7.80	0.988	-119	3.05	13.27	13.45
1635	10/7/2014	21.30	7.79	0.995	-119	2.90	12.94	13.49

Final Readings	1635	10/7/2014	21.30	7.79	0.995	-119	2.90	12.94	13.49
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 06, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-MW13	Sample Date:	Monday, October 06, 2014
		Sample Time:	905
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	45 *F

Water Level & Well Data

Depth to water from measuring point:	23.34	feet
Depth to well bottom from measuring point:	33.00	feet
Height of water column:	9.66	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 3.0 sec.

Off: 27.0 sec.

Pressure: _____ psi

Purge Time

Start 730 Stop 805

Sample Collection Time

Start 805 Stop 905

Volume of water in well

2" well:

height: 9.66 x .163 = 1.57458

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
730	10/6/2014							
735	10/6/2014	10.68	7.52	0.647	109	5.82	9.11	23.95
740	10/6/2014	11.12	7.66	0.473	106	5.57	9.78	24.05
745	10/6/2014	11.46	7.70	0.490	106	5.30	6.24	24.24
750	10/6/2014	11.57	7.71	0.424	108	4.72	5.79	24.73
755	10/6/2014	11.66	7.70	0.425	109	4.68	5.74	24.93
800	10/6/2014	11.82	7.69	0.426	109	4.51	5.75	25.28
805	10/6/2014	11.86	7.69	0.425	109	4.59	5.76	25.50

Final Readings	805	10/6/2014	11.86	7.69	0.425	109	4.59	5.76	25.50
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Monday, October 06, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4103-MW14	Sample Date:	Monday, October 06, 2014
		Sample Time:	1120
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	45 *F

Water Level & Well Data

Depth to water from measuring point:	30.92	feet
Depth to well bottom from measuring point:	34.00	feet
Height of water column:	3.08	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: 4.0 sec.

Off: 26.0 sec.

Pressure: 28 psi

Purge Time

Start 925 Stop 1005

Sample Collection Time

Start 1005 Stop 1120

Volume of water in well

2" well:

height: 3.08 x .163 = 0.50204

Ferrous Iron: 0.04 mg/L

Volume of water removed: 4.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
925	10/6/14							
930	10/6/14	13.24	7.35	0.163	126	7.17	6.34	31.04
935	10/6/14	14.27	6.80	0.066	186	6.04	6.07	31.00
940	10/6/14	14.70	6.62	0.052	201	6.28	7.26	30.93
945	10/6/14	14.81	6.59	0.049	203	5.58	6.96	30.98
950	10/6/14	14.80	6.55	0.500	200	5.95	7.14	31.01
955	10/6/14	14.98	6.52	0.049	203	5.05	7.24	31.00
1000	10/6/14	14.97	6.57	0.048	206	4.45	7.00	30.98
1005	10/6/14	15.03	6.55	0.048	204	4.68	6.94	31.04

Final Readings	1005	10/6/14	15.03	6.55	0.048	204	4.68	6.94	31.04
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Tuesday, October 07, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	II-3b	Sample Date:	Tuesday, October 07, 2014
		Sample Time:	925
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	55 *F

Water Level & Well Data

Depth to water from measuring point:	14.51	feet
Depth to well bottom from measuring point:	27.70	feet
Height of water column:	13.19	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: 100 ml/min

Control Settings: On: ____ sec.

Off: ____ sec.

Pressure: ____ psi

Purge Time

Start 745 Stop 825

Sample Collection Time

Start 825 Stop 925

Volume of water in well

2" well:

height: 13.19 x .163 = 2.14997

Volume of water removed: 6.4 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
745	10/7/2014							
750	10/7/2014	15.19	7.50	0.607	173	4.17	10.68	14.61
755	10/7/2014	15.00	7.54	0.585	149	2.84	8.27	14.62
800	10/7/2014	14.94	7.49	0.573	129	1.70	7.15	14.64
805	10/7/2014	14.92	7.47	0.571	119	1.21	6.49	14.67
810	10/7/2014	14.98	7.46	0.568	110	0.93	6.24	14.68
815	10/7/2014	15.03	7.45	0.567	104	0.80	6.12	14.70
820	10/7/2014	15.04	7.45	0.568	98	0.70	6.06	14.69
825	10/7/2014	15.07	7.45	0.567	96	0.65	6.07	14.68

Final Readings	825	10/7/2014	15.07	7.45	0.567	96	0.65	6.07	14.68
			* C	units	mS/cm	mV	mg/L	NTU	

GROUNDWATER SAMPLING FIELD DATA

Location:	WhiteStreet Landfill	Purge Date:	Monday, October 06, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	II-9	Sample Date:	Monday, October 06, 2014
		Sample Time:	1730
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	65*F

Water Level & Well Data

Depth to water from measuring point:	13.02	feet
Depth to well bottom from measuring point:	25.00	feet
Height of water column:	11.98	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: < 100 ml/min

Control Settings: On: x sec.; Off: x sec.; Pressure: x psi

Purge Time

Start 1525 Stop 1610

Sample Collection Time

Start 1620 Stop 1730

Volume of water in well

2" well:

height: 11.98 x .163 = 1.9527

Ferrous Iron: 1.30 mg/L

Volume of water removed: 22.3 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	ıductivity	*ORP	*D.O.	*Turbidity	DTW
1525	10/6/2014							
1540	10/6/2014	19.95	7.48	0.859	10	1.44	21.50	13.09
1545	10/6/2014	18.82	7.46	0.853	13	0.75	22.50	13.21
1550	10/6/2014	18.51	7.44	0.853	15	0.47	20.00	13.31
1555	10/6/2014	18.51	7.43	0.856	16	0.89	16.42	13.46
1600	10/6/2014	18.64	7.44	0.854	17	0.83	16.36	13.51
1605	10/6/2014	18.79	7.43	0.856	17	0.37	15.20	13.62
1610	10/6/2014	18.84	7.43	0.855	17	0.34	12.50	13.69
1615	10/6/2014	18.79	7.42	0.855	17	0.33	12.29	13.71
1620	10/6/2014	18.89	7.43	0.854	17	0.32	11.85	13.71

Final Readings	1620	10/6/2014	18.89	7.43	0.854	17	0.32	11.85	13.71

GROUNDWATER SAMPLING FIELD DATA

Location:	WhiteStreet Landfill	Purge Date:	Tuesday, October 07, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	SMW-1	Sample Date:	Tuesday, October 07, 2014
		Sample Time:	1135
Locked?:	Yes: x No:	Weather:	P/Cloudy
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	11.41	feet
Depth to well bottom from measuring point:	18.40	feet
Height of water column:	6.99	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: < 100 ml/min

Control Settings: On: ____ sec.; Off: ____ sec.; Pressure: ____ psi

Purge Time

Start 940 Stop 1035

Sample Collection Time

Start 1035 Stop 1135

Volume of water in well

2" well:

height: 6.99 x .163 = 1.1394

Volume of water removed: 13.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	date	Temp	pH	ıductivity	*ORP	*D.O.	*Turbidity	DTW
940	10/7/2014							
945	10/7/2014	16.72	7.52	0.362	-18	2.67	12.88	11.70
950	10/7/2014	16.14	749.00	0.336	-46	1.02	25.10	11.94
955	10/7/2014	15.98	7.48	0.336	-62	0.52	23.20	12.02
1000	10/7/2014	15.94	7.47	0.341	-77	0.53	22.30	12.11
1005	10/7/2014	15.99	7.48	0.352	-96	0.41	20.30	12.16
1010	10/7/2014	16.05	7.51	0.361	-107	0.40	15.88	12.26
1015	10/7/2014	16.12	7.52	0.368	-114	0.36	13.11	12.34
1020	10/7/2014	16.21	7.52	0.371	-118	0.33	12.06	12.37
1025	10/7/2014	16.23	7.52	0.373	-120	0.34	10.89	12.42
1030	10/7/2014	16.22	7.53	0.374	-122	0.35	10.12	12.49
1035	10/7/2014	16.29	7.53	0.375	-123	0.33	9.99	12.51

Final Readings	1035	10/7/2014	16.29	7.53	0.375	-123	0.33	9.99	12.51

GROUNDWATER SAMPLING FIELD DATA

Location:	WhiteStreet Landfill	Purge Date:	Tuesday, October 07, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	SMW-3	Sample Date:	Tuesday, October 07, 2014
		Sample Time:	1340
Locked?:	Yes: x No:	Weather:	P/Cloudy
Sampled By:	Gary Simcox	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	11.74	feet
Depth to well bottom from measuring point:	25.00	feet
Height of water column:	13.26	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Peristaltic Pump

Sample Method: Peristaltic Pump

Purge Rate: < 100 ml/min

Control Settings: On: ____ sec.; Off: ____ sec.; Pressure: ____ psi

Purge Time

Start 1150 Stop 1230

Sample Collection Time

Start 1230 Stop 1340

Volume of water in well

2" well:

height: 13.26 x .163 = 2.1614

Ferrous Iron: 1.40 mg/L

Volume of water removed: 24.6 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	date	Temp	pH	ıductivity	*ORP	*D.O.	*Turbidity	DTW
1150	10/7/2014							
1155	10/7/2014	18.10	7.65	0.636	-19	0.87	11.00	11.89
1200	10/7/2014	18.23	7.65	0.636	-19	0.84	9.74	11.93
1205	10/7/2014	18.37	7.65	0.636	-19	0.83	9.55	11.93
1210	10/7/2014	18.63	7.64	0.633	-19	0.98	9.75	11.95
1215	10/7/2014	18.93	7.64	0.631	-19	1.00	9.08	11.96
1220	10/7/2014	19.15	7.64	0.629	-18	0.88	8.71	11.93
1225	10/7/2014	19.19	7.64	0.627	-18	0.67	8.73	11.95
1230	10/7/2014	19.15	7.65	0.628	-18	0.63	8.74	11.94

Final Readings	1230	10/7/2014	19.15	7.65	0.628	-18	0.60	8.74	11.94

GROUNDWATER SAMPLING FIELD DATA

Location:	WhiteStreet Landfill	Purge Date:	Tuesday, October 07, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	SMW-4	Sample Date:	Tuesday, October 07, 2014
		Sample Time:	1545
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Gary Simcox	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	12.63	feet
Depth to well bottom from measuring point:	23.90	feet
Height of water column:	11.27	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Bladder Pump

Sample Method: Bladder Pump

Purge Rate: < 100 ml/min

Control Settings: On: ____ sec.; Off: ____ sec.; Pressure: ____ psi

Purge Time

Start 1355 Stop 1445

Sample Collection Time

Start 1445 Stop 1545

Volume of water in well

2" well:

height: 11.27 x .163 = 1.837

Volume of water removed: 20.9 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	date	Temp	pH	ıductivity	*ORP	*D.O.	*Turbidity	DTW
1355	10/7/2014							
1400	10/7/2014	19.73	7.33	1.098	34	3.36	10.95	12.74
1405	10/7/2014	19.63	7.27	1.349	26	1.89	9.05	12.79
1410	10/7/2014	18.50	7.26	1.407	23	1.04	9.34	12.84
1415	10/7/2014	18.63	7.25	1.388	20	0.64	9.66	12.94
1420	10/7/2014	18.57	7.24	1.336	21	0.50	9.02	12.96
1425	10/7/2014	18.52	7.18	1.213	33	0.43	8.39	13.01
1430	10/7/2014	18.66	7.13	1.161	43	0.41	7.91	13.07
1435	10/7/2014	18.76	7.09	1.142	47	0.40	7.53	13.12
1440	10/7/2014	18.81	7.08	1.126	49	0.45	7.43	13.17
1445	10/7/2014	18.99	7.08	1.124	49	0.41	7.44	13.21

Final Readings	1445	10/7/2014	18.99	7.08	1.124	49	0.41	7.44	13.21
		* C	units	mS/cm	mV	mg/L	NTU		

Blank

Location:	White Street Landfill	Purge Date:	Thursday, October 02, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW1	Sample Date:	Thursday, October 02, 2014
		Sample Time:	805
Locked?:	Yes: x No:	Weather:	Foggy
Sampled By:	Gary Simcox	Air Temp:	60 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	805	10/2/2014	19.33	8.03	0.276			
			* C	units	mS/cm			

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 01, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW2	Sample Date:	Wednesday, October 01, 2014
		Sample Time:	1630
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	75 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters x

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1630	10/1/2014	19.21	8.03	0.228				
			* C	units	mS/cm				

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 02, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW3	Sample Date:	Thursday, October 02, 2014
		Sample Time:	735
Locked?:	Yes: _____ No: _____	Weather:	Foggy
Sampled By:	Gary Simcox	Air Temp:	60 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	735	10/2/2014	21.28	7.88	0.454				
			* C	units	mS/cm				

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Thursday, October 02, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW4	Sample Date:	Thursday, October 02, 2014
		Sample Time:	650
Locked?:	Yes: x No:	Weather:	Foggy
Sampled By:	Gary Simcox	Air Temp:	60 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ ml/min

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	650	10/2/2014	19.92	7.72	0.444				
			* C	units	mS/cm				

GROUNDWATER SAMPLING FIELD DATA

Location:	White Street Landfill	Purge Date:	Wednesday, October 01, 2014
Project No.:	1584-98-081	Purge Time:	
Source Well:	4112-SW5	Sample Date:	Wednesday, October 01, 2014
		Sample Time:	1600
Locked?:	Yes: x No:	Weather:	Sunny
Sampled By:	Gary Simcox	Air Temp:	85 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet

Depth to well bottom from measuring point: _____ feet

Height of water column: 0.00 feet

Measuring point: _____

Well Purging & Sample Collection

Purge Method _____

Sample Method _____

Purge Rate _____ gpm

Control Settings On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 0 x .163 = 0

Volume of water removed 0.0 gallons x liters _____

Was well purged dry Yes _____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1600	10/1/2014	22.08	7.84	0.441				
			* C	units	mS/cm				

APPENDIX II
October 2014 Laboratory Analytical Results Report

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Wednesday, October 22, 2014

City of Greensboro (CI034)

Attn: Gail Hay

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill App IIs
ENCO Workorder(s): C411816,C413074

Dear Gail Hay,

Enclosed is a copy of your laboratory report for test samples received by our laboratory between Friday, October 3, 2014 and Monday, October 6, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 121.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-DuplicateII | **Lab ID: C411816-01** | **Sampled: 10/03/14 08:00** | **Received: 10/03/14 11:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/01/15		10/10/14	10:50	10/13/2014 15:35
EPA 6020A	04/01/15		10/06/14	10:38	10/7/2014 13:14
EPA 7470A	10/31/14		10/13/14	13:47	10/14/2014 13:53
EPA 8081B	10/10/14	11/16/14	10/07/14	12:30	10/9/2014 15:46
EPA 8082A	10/03/15	11/16/14	10/07/14	12:30	10/9/2014 15:46
EPA 8260B	10/17/14		10/10/14	11:37	10/13/2014 17:10
EPA 8270D	10/10/14	11/17/14	10/08/14	14:30	10/21/2014 04:43
EPA 9014	10/17/14		10/07/14	10:25	10/9/2014 13:54
SM 4500S2 D-2000	10/10/14		10/07/14	11:45	10/7/2014 12:11

Client ID: 4103-DuplicateII | **Lab ID: C411816-01RE1** | **Sampled: 10/03/14 08:00** | **Received: 10/03/14 11:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8151A	10/10/14	11/16/14	10/07/14	14:35	10/15/2014 16:45

Client ID: 4103-II2 | **Lab ID: C411816-02** | **Sampled: 10/03/14 08:45** | **Received: 10/03/14 11:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/01/15		10/10/14	10:50	10/13/2014 15:48
EPA 6020A	04/01/15		10/06/14	10:38	10/7/2014 13:44
EPA 7470A	10/31/14		10/13/14	13:47	10/14/2014 13:55
EPA 8081B	10/10/14	11/16/14	10/07/14	12:30	10/9/2014 16:12
EPA 8082A	10/03/15	11/16/14	10/07/14	12:30	10/9/2014 16:12
EPA 8260B	10/17/14		10/10/14	11:37	10/13/2014 17:39
EPA 8270D	10/10/14	11/17/14	10/08/14	14:30	10/21/2014 05:14
EPA 9014	10/17/14		10/07/14	10:25	10/9/2014 14:00
SM 4500S2 D-2000	10/10/14		10/07/14	11:45	10/7/2014 12:11

Client ID: 4103-II2 | **Lab ID: C411816-02RE1** | **Sampled: 10/03/14 08:45** | **Received: 10/03/14 11:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8151A	10/10/14	11/16/14	10/07/14	14:35	10/15/2014 17:11

Client ID: 4103-II6 | **Lab ID: C411816-03** | **Sampled: 10/02/14 18:35** | **Received: 10/03/14 11:20**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/31/15		10/10/14	10:50	10/13/2014 15:50
EPA 6020A	03/31/15		10/06/14	10:38	10/7/2014 13:47
EPA 7470A	10/30/14		10/13/14	13:47	10/14/2014 13:58
EPA 8081B	10/09/14	11/16/14	10/07/14	12:30	10/9/2014 16:25
EPA 8082A	10/02/15	11/16/14	10/07/14	12:30	10/9/2014 16:25
EPA 8260B	10/16/14		10/09/14	15:13	10/12/2014 19:23
EPA 8270D	10/09/14	11/17/14	10/08/14	14:30	10/21/2014 05:44
EPA 9014	10/16/14		10/07/14	10:25	10/9/2014 14:02
SM 4500S2 D-2000	10/09/14		10/07/14	11:45	10/7/2014 12:11

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Client ID: 4103-II6	Lab ID: C411816-03RE1	Sampled: 10/02/14 18:35	Received: 10/03/14 11:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8151A	10/09/14	11/16/14	10/07/14	14:35	10/15/2014 17:38

Client ID: 4103-II7	Lab ID: C411816-04	Sampled: 10/02/14 16:20	Received: 10/03/14 11:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/31/15		10/10/14	10:50	10/13/2014 15:54
EPA 6020A	03/31/15		10/06/14	10:38	10/7/2014 13:51
EPA 7470A	10/30/14		10/13/14	13:47	10/14/2014 14:00
EPA 8081B	10/09/14	11/16/14	10/07/14	12:30	10/9/2014 16:39
EPA 8082A	10/02/15	11/16/14	10/07/14	12:30	10/9/2014 16:39
EPA 8151A	10/09/14	11/16/14	10/07/14	14:35	10/10/2014 00:19
EPA 8260B	10/16/14		10/09/14	15:13	10/12/2014 19:53
EPA 8270D	10/09/14	11/17/14	10/08/14	14:30	10/21/2014 06:15
EPA 9014	10/16/14		10/07/14	10:25	10/9/2014 14:04
SM 4500S2 D-2000	10/09/14		10/07/14	11:45	10/7/2014 12:11

Client ID: 4103-II7B	Lab ID: C411816-05	Sampled: 10/02/14 19:44	Received: 10/03/14 11:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/31/15		10/10/14	10:50	10/13/2014 15:56
EPA 6020A	03/31/15		10/06/14	10:38	10/7/2014 13:55
EPA 7470A	10/30/14		10/13/14	13:47	10/14/2014 14:02
EPA 8081B	10/09/14	11/16/14	10/07/14	12:30	10/9/2014 16:52
EPA 8082A	10/02/15	11/16/14	10/07/14	12:30	10/9/2014 16:52
EPA 8151A	10/09/14	11/16/14	10/07/14	14:35	10/10/2014 00:45
EPA 8260B	10/16/14		10/09/14	15:13	10/12/2014 20:22
EPA 8270D	10/09/14	11/17/14	10/08/14	14:30	10/21/2014 06:45
EPA 9014	10/16/14		10/07/14	10:25	10/9/2014 14:06
SM 4500S2 D-2000	10/09/14		10/07/14	11:45	10/7/2014 12:11

Client ID: 4103-TripBlank#2	Lab ID: C411816-06	Sampled: 10/02/14 16:20	Received: 10/03/14 11:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/16/14		10/10/14	10:23	10/12/2014 19:36

Client ID: 4103-II3	Lab ID: C413074-01	Sampled: 10/03/14 12:00	Received: 10/06/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/01/15		10/10/14	10:50	10/13/2014 16:07
EPA 6020A	04/01/15		10/10/14	10:58	10/13/2014 13:02
EPA 7470A	10/31/14		10/14/14	09:58	10/15/2014 13:47
EPA 8081B	10/10/14	11/16/14	10/07/14	12:30	10/9/2014 20:24
EPA 8082A	10/03/15	11/16/14	10/07/14	12:30	10/9/2014 20:24
EPA 8151A	10/10/14	11/19/14	10/10/14	14:07	10/15/2014 18:56
EPA 8260B	10/17/14		10/10/14	11:37	10/13/2014 21:04
EPA 8270D	10/10/14	11/16/14	10/07/14	17:38	10/21/2014 07:16
EPA 9014	10/17/14		10/09/14	12:46	10/10/2014 15:05
SM 4500S2 D-2000	10/10/14		10/07/14	11:45	10/7/2014 12:11

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Client ID: 4103-II4A	Lab ID: C413074-02	Sampled: 10/03/14 15:50	Received: 10/06/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/01/15		10/10/14	10:50	10/13/2014 16:10
EPA 6020A	04/01/15		10/10/14	10:58	10/13/2014 13:05
EPA 7470A	10/31/14		10/14/14	09:58	10/15/2014 13:49
EPA 8081B	10/10/14	11/16/14	10/07/14	12:30	10/9/2014 20:38
EPA 8082A	10/03/15	11/16/14	10/07/14	12:30	10/9/2014 20:38
EPA 8151A	10/10/14	11/19/14	10/10/14	14:07	10/15/2014 19:23
EPA 8260B	10/17/14		10/10/14	11:37	10/13/2014 21:34
EPA 8270D	10/10/14	11/16/14	10/07/14	17:38	10/21/2014 07:46
EPA 9014	10/17/14		10/09/14	12:46	10/10/2014 15:11
SM 4500S2 D-2000	10/10/14		10/07/14	11:45	10/7/2014 12:11

Client ID: 4103-II5	Lab ID: C413074-03	Sampled: 10/03/14 14:00	Received: 10/06/14 10:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/01/15		10/10/14	10:50	10/13/2014 16:12
EPA 6020A	04/01/15		10/10/14	10:58	10/13/2014 13:09
EPA 7470A	10/31/14		10/14/14	09:58	10/15/2014 13:56
EPA 8081B	10/10/14	11/16/14	10/07/14	12:30	10/9/2014 20:51
EPA 8082A	10/03/15	11/16/14	10/07/14	12:30	10/9/2014 20:51
EPA 8151A	10/10/14	11/19/14	10/10/14	14:07	10/15/2014 19:49
EPA 8260B	10/17/14		10/10/14	11:37	10/13/2014 22:03
EPA 8270D	10/10/14	11/16/14	10/07/14	17:38	10/21/2014 08:17
EPA 9014	10/17/14		10/09/14	12:46	10/10/2014 15:13
SM 4500S2 D-2000	10/10/14		10/07/14	11:45	10/7/2014 12:11

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-DuplicateII **Lab ID: C411816-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	8.7		1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.6		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	1.13	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	53.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.96	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	23		1	0.15	1.0	5	ug/L	EPA 8260B	
Trichloroethene	1.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	1.96	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	2.2		1	0.32	1.0	1	ug/L	EPA 8260B	

Client ID: 4103-II2 **Lab ID: C411816-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	8.4		1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.3		1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	53.8	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chlorobenzene	0.72	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	21		1	0.15	1.0	5	ug/L	EPA 8260B	
Tetrachloroethene	1.3		1	0.17	1.0	1	ug/L	EPA 8260B	
Trichloroethene	1.2		1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	2.28	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	2.6		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	4.05	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II6 **Lab ID: C411816-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	0.46	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	3.8		1	0.19	1.0	1	ug/L	EPA 8260B	
3 & 4-Methylphenol	1.6	J	1	1.6	10	10	ug/L	EPA 8270D	
Acetone	16	J	1	1.2	5.0	100	ug/L	EPA 8260B	
Antimony - Total	0.278	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	382		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	2.0		1	0.15	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	0.430	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	5.8		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	3.92	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	29.3		1	1.10	10.0	10	ug/L	EPA 6010C	
Naphthalene	2.5	J	1	0.11	1.0	10	ug/L	EPA 8260B	
Nickel - Total	54.3		1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrahydrofuran	29		1	0.80	1.0	NE	ug/L	EPA 8260B	
Xylenes (Total)	1.9	J	1	0.45	3.0	5	ug/L	EPA 8260B	

Client ID: 4103-II7 **Lab ID: C411816-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	159		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.63	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	4.07	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	4.39	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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Client ID: 4103-II7B **Lab ID: C411816-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	11.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	3.45	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4103-II3 **Lab ID: C413074-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	11		1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.293	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	197		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.1		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	0.45	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	1.57	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	0.74	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	12.3		1	1.10	10.0	10	ug/L	EPA 6010C	
Mercury - Total	0.443		1	0.170	0.200	0.2	ug/L	EPA 7470A	
Nickel - Total	11.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	4.79	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II4A **Lab ID: C413074-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	1.2	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	0.96	J	1	0.19	1.0	1	ug/L	EPA 8260B	
Barium - Total	182		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	0.41	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	1.5	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	1.94	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.33	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	25.9	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrahydrofuran	11		1	0.80	1.0	NE	ug/L	EPA 8260B	
Vanadium - Total	1.87	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.79	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II5 **Lab ID: C413074-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	94.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	11.0		1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.99	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfide	0.011	J	1	0.010	0.10	1000	mg/L	SM 4500S2 D-2000	
Zinc - Total	10.7		1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 17:10	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,1-Dichloroethane [75-34-3] ^	**8.7**		ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 17:10	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**1.6**		ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 17:10	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 17:10	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 17:10	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 17:10	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 17:10	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 17:10	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 17:10	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 17:10	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 17:10	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 17:10	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 17:10	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Chlorobenzene [108-90-7] ^	**0.96**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 17:10	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 17:10	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**23**		ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 17:10	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 17:10	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 17:10	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 17:10	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 17:10	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 17:10	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 17:10	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 17:10	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 17:10	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 17:10	MSZ	
Trichloroethene [79-01-6] ^	**1.3**		ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 17:10	MSZ	
Vinyl chloride [75-01-4] ^	**2.2**		ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 17:10	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 17:10	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*61*	*1*	*50.0*	*122 %*	*53-136*	*4J10021*	*EPA 8260B*	*10/13/14 17:10*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*114 %*	*67-129*	*4J10021*	*EPA 8260B*	*10/13/14 17:10*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*119 %*	*59-134*	*4J10021*	*EPA 8260B*	*10/13/14 17:10*	*MSZ*	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 04:43	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 04:43	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 04:43	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 04:43	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 04:43	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 04:43	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 04:43	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 04:43	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 04:43	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 04:43	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 04:43	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 04:43	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 04:43	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 04:43	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 04:43	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 04:43	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 04:43	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 04:43	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	

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Description: 4103-DuplicateII | **Lab Sample ID:** C411816-01 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:00 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 04:43	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 04:43	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 04:43	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 04:43	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 04:43	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 04:43	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 04:43	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 04:43	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 04:43	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 04:43	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 04:43	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 04:43	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 04:43	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 04:43	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 04:43	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 04:43	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 04:43	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	

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Semivolatile Organic Compounds by GCMS

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Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 04:43	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 04:43	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 04:43	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 04:43	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 04:43	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 04:43	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 04:43	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 04:43	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 04:43	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*86*	*1*	*100*	*86 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 04:43*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*88 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 04:43*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 04:43*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 04:43*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 04:43*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*92 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 04:43*	*DFM*	

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Lab Sample ID: C411816-01
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Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 15:46	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 15:46	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 15:46	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 15:46	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 15:46	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 15:46	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 15:46	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 15:46	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 15:46	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 15:46	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 15:46	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 15:46	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 15:46	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 15:46	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 15:46	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 15:46	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 15:46	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 15:46	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 15:46	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 15:46	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 15:46	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.85*	*1*	*1.00*	*85 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 15:46*	*MWC*	
Decachlorobiphenyl	*0.81*	*1*	*1.00*	*81 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 15:46*	*MWC*	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 15:46	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 15:46	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 15:46	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 15:46	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 15:46	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 15:46	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.86*	*1*	*1.00*	*86 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 15:46*	*MWC*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 15:46*	*MWC*	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/14/14 13:53	T1D	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.13**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/07/14 13:14	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 15:35	JDH	
Barium [7440-39-3] ^	**53.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 15:35	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 15:35	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 15:35	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 15:35	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 15:35	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 15:35	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 15:35	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 15:35	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/07/14 13:14	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 15:35	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/07/14 13:14	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 15:35	JDH	
Vanadium [7440-62-2] ^	**1.96**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 15:35	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 15:35	JDH	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/09/14 13:54	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-DuplicateII
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-01
Sampled: 10/03/14 08:00
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 16:45	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 16:45	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 16:45	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 16:45	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 16:45	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.3*	*1*	*2.00*	*115 %*	*68-139*	*4J07026*	*EPA 8151A*	*10/15/14 16:45*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 17:39	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,1-Dichloroethane [75-34-3] ^	**8.4**		ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 17:39	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**1.3**		ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 17:39	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 17:39	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 17:39	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 17:39	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 17:39	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 17:39	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 17:39	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 17:39	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 17:39	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 17:39	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 17:39	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Chlorobenzene [108-90-7] ^	**0.72**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 17:39	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 17:39	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**21**		ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 17:39	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 17:39	MSZ	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 17:39	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 17:39	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 17:39	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 17:39	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 17:39	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Tetrachloroethene [127-18-4] ^	**1.3**		ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 17:39	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 17:39	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 17:39	MSZ	
Trichloroethene [79-01-6] ^	**1.2**		ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 17:39	MSZ	
Vinyl chloride [75-01-4] ^	**2.6**		ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 17:39	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 17:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*109 %*	*53-136*	*4J10021*	*EPA 8260B*	*10/13/14 17:39*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*4J10021*	*EPA 8260B*	*10/13/14 17:39*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*113 %*	*59-134*	*4J10021*	*EPA 8260B*	*10/13/14 17:39*	*MSZ*	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 05:14	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 05:14	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 05:14	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:14	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 05:14	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 05:14	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:14	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 05:14	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 05:14	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 05:14	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 05:14	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 05:14	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 05:14	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 05:14	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 05:14	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 05:14	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 05:14	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 05:14	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 05:14	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 05:14	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:14	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 05:14	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:14	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 05:14	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 05:14	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 05:14	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 05:14	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 05:14	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 05:14	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 05:14	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 05:14	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 05:14	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:14	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 05:14	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 05:14	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 05:14	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:14	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 05:14	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 05:14	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:14	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:14	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:14	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:14	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 05:14	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*85*	*1*	*100*	*85 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 05:14*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*91 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 05:14*	*DFM*	
2-Fluorophenol	*54*	*1*	*100*	*54 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 05:14*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*75 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 05:14*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 05:14*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 05:14*	*DFM*	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 16:12	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:12	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 16:12	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:12	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:12	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:12	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 16:12	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:12	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:12	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:12	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:12	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:12	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:12	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 16:12	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:12	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:12	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 16:12	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 16:12	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 16:12	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 16:12	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 16:12	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 16:12*	*MWC*	
Decachlorobiphenyl	*0.84*	*1*	*1.00*	*84 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 16:12*	*MWC*	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 16:12	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:12	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:12	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 16:12	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:12	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:12	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.0*	*1*	*1.00*	*101 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 16:12*	*MWC*	
Decachlorobiphenyl	*0.90*	*1*	*1.00*	*90 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 16:12*	*MWC*	

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Description:	4103-II2	**Lab Sample ID:**	C411816-02	**Received:**	10/03/14 11:20
Matrix:	Ground Water	**Sampled:**	10/03/14 08:45	**Work Order:**	C411816
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/14/14 13:55	T1D	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/07/14 13:44	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 15:48	JDH	
Barium [7440-39-3] ^	**53.8**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 15:48	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 15:48	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 15:48	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 15:48	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 15:48	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 15:48	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 15:48	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 15:48	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/07/14 13:44	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 15:48	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/07/14 13:44	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 15:48	JDH	
Vanadium [7440-62-2] ^	**2.28**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 15:48	JDH	
Zinc [7440-66-6] ^	**4.05**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 15:48	JDH	

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Description: 4103-II2
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-02
Sampled: 10/03/14 08:45
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/09/14 14:00	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-II2 | **Lab Sample ID:** C411816-02 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/03/14 08:45 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 17:11	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 17:11	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 17:11	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 17:11	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 17:11	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.5*	*1*	*2.00*	*123 %*	*68-139*	*4J07026*	*EPA 8151A*	*10/15/14 17:11*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/12/14 19:23	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/12/14 19:23	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.46**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**3.8**		ug/L	1	0.19	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/12/14 19:23	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/12/14 19:23	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/12/14 19:23	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/12/14 19:23	MSZ	
Acetone [67-64-1] ^	**16**	J	ug/L	1	1.2	5.0	100	EPA 8260B	10/12/14 19:23	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/12/14 19:23	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/12/14 19:23	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/12/14 19:23	MSZ	
Benzene [71-43-2] ^	**2.0**		ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/12/14 19:23	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/12/14 19:23	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/12/14 19:23	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Chlorobenzene [108-90-7] ^	**5.8**		ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 19:23	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/12/14 19:23	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 19:23	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/12/14 19:23	MSZ	

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/12/14 19:23	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/12/14 19:23	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/12/14 19:23	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Naphthalene [91-20-3] ^	**2.5**	J	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 19:23	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/12/14 19:23	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Tetrahydrofuran [109-99-9] ^	**29**		ug/L	1	0.80	1.0		EPA 8260B	10/12/14 19:23	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 19:23	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/12/14 19:23	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/12/14 19:23	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/12/14 19:23	MSZ	
Xylenes (Total) [1330-20-7] ^	**1.9**	J	ug/L	1	0.45	3.0	5	EPA 8260B	10/12/14 19:23	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*113 %*	*53-136*	*4J09041*	*EPA 8260B*	*10/12/14 19:23*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*4J09041*	*EPA 8260B*	*10/12/14 19:23*	*MSZ*	
Toluene-d8	*60*	*1*	*50.0*	*119 %*	*59-134*	*4J09041*	*EPA 8260B*	*10/12/14 19:23*	*MSZ*	

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 05:44	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 05:44	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 05:44	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:44	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 05:44	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 05:44	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:44	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 05:44	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	**1.6**	J	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 05:44	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 05:44	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 05:44	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 05:44	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 05:44	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 05:44	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 05:44	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 05:44	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 05:44	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 05:44	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 05:44	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 05:44	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:44	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 05:44	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:44	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 05:44	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 05:44	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 05:44	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 05:44	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 05:44	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 05:44	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 05:44	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 05:44	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 05:44	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 05:44	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 05:44	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 05:44	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 05:44	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 05:44	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 05:44	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 05:44	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 05:44	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 05:44	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 05:44	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 05:44	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 05:44	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*93*	*1*	*100*	*93 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 05:44*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*83 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 05:44*	*DFM*	
2-Fluorophenol	*56*	*1*	*100*	*56 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 05:44*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 05:44*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 05:44*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*87 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 05:44*	*DFM*	

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 16:25	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:25	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 16:25	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:25	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:25	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:25	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 16:25	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:25	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:25	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:25	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:25	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:25	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:25	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 16:25	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:25	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:25	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 16:25	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 16:25	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 16:25	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 16:25	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 16:25	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.58*	*1*	*1.00*	*58 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 16:25*	*MWC*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 16:25*	*MWC*	

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Description: 4103-II6
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-03
Sampled: 10/02/14 18:35
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 16:25	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:25	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:25	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 16:25	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:25	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:25	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.64*	*1*	*1.00*	*64 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 16:25*	*MWC*	
Decachlorobiphenyl	*1.3*	*1*	*1.00*	*129 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 16:25*	*MWC*	

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Description:	4103-II6	**Lab Sample ID:**	C411816-03	**Received:**	10/03/14 11:20
Matrix:	Ground Water	**Sampled:**	10/02/14 18:35	**Work Order:**	C411816
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/14/14 13:58	T1D	

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Description: 4103-II6 | **Lab Sample ID:** C411816-03 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 18:35 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.278**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/07/14 13:47	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 15:50	JDH	
Barium [7440-39-3] ^	**382**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 15:50	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 15:50	JDH	
Cadmium [7440-43-9] ^	**0.430**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 15:50	JDH	
Chromium [7440-47-3] ^	**3.92**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 15:50	JDH	
Cobalt [7440-48-4] ^	**29.3**		ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 15:50	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 15:50	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 15:50	JDH	
Nickel [7440-02-0] ^	**54.3**		ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 15:50	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/07/14 13:47	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 15:50	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/07/14 13:47	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 15:50	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 15:50	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 15:50	JDH	

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Description: 4103-II6
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-03
Sampled: 10/02/14 18:35
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/09/14 14:02	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description:	4103-II6	**Lab Sample ID:**	C411816-03	**Received:**	10/03/14 11:20
Matrix:	Ground Water	**Sampled:**	10/02/14 18:35	**Work Order:**	C411816
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 17:38	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 17:38	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 17:38	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 17:38	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 17:38	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*2.00*	*70 %*	*68-139*	*4J07026*	*EPA 8151A*	*10/15/14 17:38*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II7 | **Lab Sample ID:** C411816-04 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/12/14 19:53	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/12/14 19:53	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/12/14 19:53	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/12/14 19:53	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/12/14 19:53	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/12/14 19:53	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/12/14 19:53	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/12/14 19:53	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/12/14 19:53	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/12/14 19:53	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/12/14 19:53	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/12/14 19:53	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/12/14 19:53	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 19:53	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/12/14 19:53	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 19:53	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/12/14 19:53	MSZ	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-04
Sampled: 10/02/14 16:20
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/12/14 19:53	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/12/14 19:53	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/12/14 19:53	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 19:53	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/12/14 19:53	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/12/14 19:53	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 19:53	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/12/14 19:53	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/12/14 19:53	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/12/14 19:53	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/12/14 19:53	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*53-136*	*4J09041*	*EPA 8260B*	*10/12/14 19:53*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*113 %*	*67-129*	*4J09041*	*EPA 8260B*	*10/12/14 19:53*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*117 %*	*59-134*	*4J09041*	*EPA 8260B*	*10/12/14 19:53*	*MSZ*	

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Description: 4103-II7 | **Lab Sample ID:** C411816-04 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 06:15	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 06:15	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 06:15	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:15	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 06:15	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 06:15	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:15	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 06:15	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 06:15	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 06:15	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 06:15	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 06:15	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 06:15	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 06:15	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 06:15	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 06:15	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 06:15	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 06:15	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	

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Description: 4103-II7 | **Lab Sample ID:** C411816-04 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 06:15	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 06:15	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:15	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 06:15	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:15	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 06:15	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 06:15	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 06:15	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 06:15	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 06:15	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 06:15	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 06:15	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 06:15	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 06:15	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:15	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 06:15	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 06:15	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	

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Description: 4103-II7 | **Lab Sample ID:** C411816-04 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 06:15	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:15	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 06:15	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 06:15	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:15	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:15	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:15	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:15	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 06:15	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*102 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 06:15*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 06:15*	*DFM*	
2-Fluorophenol	*50*	*1*	*100*	*50 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 06:15*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*71 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 06:15*	*DFM*	
Phenol-d5	*43*	*1*	*100*	*43 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 06:15*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*102 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 06:15*	*DFM*	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-04
Sampled: 10/02/14 16:20
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 16:39	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:39	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 16:39	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:39	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:39	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:39	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 16:39	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:39	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:39	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:39	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:39	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:39	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:39	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 16:39	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:39	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:39	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 16:39	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 16:39	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 16:39	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 16:39	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 16:39	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.64*	*1*	*1.00*	*64 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 16:39*	*MWC*	
Decachlorobiphenyl	*1.2*	*1*	*1.00*	*116 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 16:39*	*MWC*	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-04
Sampled: 10/02/14 16:20
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 16:39	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:39	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:39	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 16:39	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:39	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:39	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.59*	*1*	*1.00*	*59 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 16:39*	*MWC*	
Decachlorobiphenyl	*1.3*	*1*	*1.00*	*128 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 16:39*	*MWC*	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-04
Sampled: 10/02/14 16:20
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/14/14 14:00	T1D	

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Description: 4103-II7 | **Lab Sample ID:** C411816-04 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/07/14 13:51	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 15:54	JDH	
Barium [7440-39-3] ^	**159**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 15:54	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 15:54	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 15:54	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 15:54	JDH	
Cobalt [7440-48-4] ^	**1.63**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 15:54	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 15:54	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 15:54	JDH	
Nickel [7440-02-0] ^	**4.07**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 15:54	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/07/14 13:51	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 15:54	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/07/14 13:51	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 15:54	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 15:54	JDH	
Zinc [7440-66-6] ^	**4.39**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 15:54	JDH	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-04
Sampled: 10/02/14 16:20
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/09/14 14:04	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-II7
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-04
Sampled: 10/02/14 16:20
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/10/14 00:19	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/10/14 00:19	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50		EPA 8151A	10/10/14 00:19	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/10/14 00:19	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/10/14 00:19	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*86 %*	*68-139*	*4J07026*	*EPA 8151A*	*10/10/14 00:19*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/12/14 20:22	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/12/14 20:22	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/12/14 20:22	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/12/14 20:22	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/12/14 20:22	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/12/14 20:22	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/12/14 20:22	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/12/14 20:22	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/12/14 20:22	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/12/14 20:22	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/12/14 20:22	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/12/14 20:22	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/12/14 20:22	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 20:22	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/12/14 20:22	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 20:22	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/12/14 20:22	MSZ	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/12/14 20:22	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/12/14 20:22	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/12/14 20:22	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 20:22	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/12/14 20:22	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/12/14 20:22	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 20:22	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/12/14 20:22	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/12/14 20:22	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/12/14 20:22	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/12/14 20:22	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*53-136*	*4J09041*	*EPA 8260B*	*10/12/14 20:22*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*4J09041*	*EPA 8260B*	*10/12/14 20:22*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*59-134*	*4J09041*	*EPA 8260B*	*10/12/14 20:22*	*MSZ*	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 06:45	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 06:45	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 06:45	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:45	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 06:45	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 06:45	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:45	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 06:45	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 06:45	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 06:45	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 06:45	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 06:45	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 06:45	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 06:45	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 06:45	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 06:45	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 06:45	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 06:45	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	

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Description: 4103-II7B | **Lab Sample ID:** C411816-05 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 19:44 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 06:45	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 06:45	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:45	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 06:45	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:45	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 06:45	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 06:45	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 06:45	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 06:45	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 06:45	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 06:45	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 06:45	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 06:45	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 06:45	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 06:45	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 06:45	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 06:45	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 06:45	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 06:45	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 06:45	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 06:45	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 06:45	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 06:45	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 06:45	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 06:45	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 06:45	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 06:45*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 06:45*	*DFM*	
2-Fluorophenol	*55*	*1*	*100*	*55 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 06:45*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 06:45*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 06:45*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*101 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 06:45*	*DFM*	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 16:52	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:52	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 16:52	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:52	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:52	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:52	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 16:52	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:52	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:52	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 16:52	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:52	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 16:52	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 16:52	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 16:52	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 16:52	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 16:52	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 16:52	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 16:52	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 16:52	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 16:52	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 16:52	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.96*	*1*	*1.00*	*96 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 16:52*	*MWC*	
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 16:52*	*MWC*	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 16:52	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:52	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:52	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 16:52	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 16:52	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 16:52	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 16:52*	*MWC*	
Decachlorobiphenyl	*0.82*	*1*	*1.00*	*82 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 16:52*	*MWC*	

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Description:	4103-II7B	**Lab Sample ID:**	C411816-05	**Received:**	10/03/14 11:20
Matrix:	Ground Water	**Sampled:**	10/02/14 19:44	**Work Order:**	C411816
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/14/14 14:02	T1D	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/07/14 13:55	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 15:56	JDH	
Barium [7440-39-3] ^	**11.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 15:56	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 15:56	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 15:56	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 15:56	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 15:56	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 15:56	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 15:56	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 15:56	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/07/14 13:55	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 15:56	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/07/14 13:55	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 15:56	JDH	
Vanadium [7440-62-2] ^	**3.45**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 15:56	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 15:56	JDH	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/09/14 14:06	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-II7B
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C411816-05
Sampled: 10/02/14 19:44
Sampled By: Gary Simcox

Received: 10/03/14 11:20
Work Order: C411816

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/10/14 00:45	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/10/14 00:45	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50		EPA 8151A	10/10/14 00:45	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/10/14 00:45	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/10/14 00:45	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.8*	*1*	*1.98*	*92 %*	*68-139*	*4J07026*	*EPA 8151A*	*10/10/14 00:45*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-TripBlank#2 | **Lab Sample ID:** C411816-06 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/12/14 19:36	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	QV-01
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/12/14 19:36	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/12/14 19:36	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/12/14 19:36	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/12/14 19:36	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/12/14 19:36	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/12/14 19:36	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/12/14 19:36	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/12/14 19:36	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/12/14 19:36	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/12/14 19:36	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/12/14 19:36	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/12/14 19:36	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 19:36	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	QV-01
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/12/14 19:36	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/12/14 19:36	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/12/14 19:36	MSZ	

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Description: 4103-TripBlank#2 | **Lab Sample ID:** C411816-06 | **Received:** 10/03/14 11:20

Matrix: Ground Water | **Sampled:** 10/02/14 16:20 | **Work Order:** C411816

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/12/14 19:36	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/12/14 19:36	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/12/14 19:36	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/12/14 19:36	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/12/14 19:36	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/12/14 19:36	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/12/14 19:36	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/12/14 19:36	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/12/14 19:36	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/12/14 19:36	MSZ	QV-01
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/12/14 19:36	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*53-136*	*4J10011*	*EPA 8260B*	*10/12/14 19:36*	*MSZ*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*67-129*	*4J10011*	*EPA 8260B*	*10/12/14 19:36*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*59-134*	*4J10011*	*EPA 8260B*	*10/12/14 19:36*	*MSZ*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 21:04	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,1-Dichloroethane [75-34-3] ^	**11**		ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 21:04	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 21:04	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 21:04	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 21:04	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 21:04	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 21:04	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 21:04	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 21:04	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 21:04	MSZ	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 21:04	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 21:04	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 21:04	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Chlorobenzene [108-90-7] ^	**0.45**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 21:04	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 21:04	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**0.74**	J	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 21:04	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 21:04	MSZ	

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 21:04	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 21:04	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 21:04	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 21:04	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 21:04	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 21:04	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 21:04	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 21:04	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 21:04	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 21:04	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 21:04	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*120 %*	*53-136*	*4J10021*	*EPA 8260B*	*10/13/14 21:04*	*MSZ*	
Dibromofluoromethane	*59*	*1*	*50.0*	*119 %*	*67-129*	*4J10021*	*EPA 8260B*	*10/13/14 21:04*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*116 %*	*59-134*	*4J10021*	*EPA 8260B*	*10/13/14 21:04*	*MSZ*	

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 07:16	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 07:16	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 07:16	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:16	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 07:16	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 07:16	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:16	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 07:16	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 07:16	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 07:16	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 07:16	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 07:16	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 07:16	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 07:16	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 07:16	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 07:16	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 07:16	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 07:16	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 07:16	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 07:16	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:16	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 07:16	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:16	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 07:16	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 07:16	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 07:16	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 07:16	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 07:16	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 07:16	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 07:16	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 07:16	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 07:16	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:16	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 07:16	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 07:16	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 07:16	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:16	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 07:16	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 07:16	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:16	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:16	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:16	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:16	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 07:16	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*85*	*1*	*100*	*85 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 07:16*	*DFM*	
2-Fluorobiphenyl	*41*	*1*	*50.0*	*81 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 07:16*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 07:16*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*81 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 07:16*	*DFM*	
Phenol-d5	*51*	*1*	*100*	*51 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 07:16*	*DFM*	
Terphenyl-d14	*40*	*1*	*50.0*	*79 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 07:16*	*DFM*	

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 20:24	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:24	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 20:24	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 20:24	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:24	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:24	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 20:24	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:24	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 20:24	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:24	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 20:24	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 20:24	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:24	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 20:24	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 20:24	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 20:24	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 20:24	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 20:24	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 20:24	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 20:24	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 20:24	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.61*	*1*	*1.00*	*61 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 20:24*	*MWC*	
Decachlorobiphenyl	*0.70*	*1*	*1.00*	*70 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 20:24*	*MWC*	

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Description: 4103-II3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-01
Sampled: 10/03/14 12:00
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 20:24	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 20:24	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 20:24	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 20:24	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 20:24	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 20:24	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.73*	*1*	*1.00*	*73 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 20:24*	*MWC*	
Decachlorobiphenyl	*0.73*	*1*	*1.00*	*73 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 20:24*	*MWC*	

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Description:	4103-II3	**Lab Sample ID:**	C413074-01	**Received:**	10/06/14 10:30
Matrix:	Ground Water	**Sampled:**	10/03/14 12:00	**Work Order:**	C413074
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	**0.443**		ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:47	T1D	

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Description: 4103-II3 | **Lab Sample ID:** C413074-01 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 12:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.293**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:02	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 16:07	JDH	
Barium [7440-39-3] ^	**197**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 16:07	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 16:07	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 16:07	JDH	
Chromium [7440-47-3] ^	**1.57**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 16:07	JDH	
Cobalt [7440-48-4] ^	**12.3**		ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 16:07	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 16:07	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 16:07	JDH	
Nickel [7440-02-0] ^	**11.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 16:07	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:02	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 16:07	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:02	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 16:07	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 16:07	JDH	
Zinc [7440-66-6] ^	**4.79**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 16:07	JDH	

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Description: 4103-II3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-01
Sampled: 10/03/14 12:00
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/10/14 15:05	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-II3
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-01
Sampled: 10/03/14 12:00
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 18:56	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 18:56	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 18:56	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 18:56	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 18:56	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*2.00*	*72 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 18:56*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 21:34	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,1-Dichloroethane [75-34-3] ^	**1.2**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 21:34	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**0.96**	J	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 21:34	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 21:34	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 21:34	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 21:34	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 21:34	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 21:34	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 21:34	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 21:34	MSZ	
Benzene [71-43-2] ^	**0.41**	J	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 21:34	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 21:34	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 21:34	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Chlorobenzene [108-90-7] ^	**1.5**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 21:34	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 21:34	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 21:34	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 21:34	MSZ	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 21:34	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 21:34	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 21:34	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 21:34	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 21:34	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Tetrahydrofuran [109-99-9] ^	**11**		ug/L	1	0.80	1.0		EPA 8260B	10/13/14 21:34	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 21:34	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 21:34	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 21:34	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 21:34	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 21:34	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*121 %*	*53-136*	*4J10021*	*EPA 8260B*	*10/13/14 21:34*	*MSZ*	
Dibromofluoromethane	*56*	*1*	*50.0*	*112 %*	*67-129*	*4J10021*	*EPA 8260B*	*10/13/14 21:34*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*115 %*	*59-134*	*4J10021*	*EPA 8260B*	*10/13/14 21:34*	*MSZ*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 07:46	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 07:46	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 07:46	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:46	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 07:46	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 07:46	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:46	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 07:46	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 07:46	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 07:46	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 07:46	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 07:46	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 07:46	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 07:46	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 07:46	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 07:46	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 07:46	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 07:46	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	

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Description: 4103-II4A | **Lab Sample ID:** C413074-02 | **Received:** 10/06/14 10:30
Matrix: Ground Water | **Sampled:** 10/03/14 15:50 | **Work Order:** C413074
Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 07:46	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 07:46	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:46	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 07:46	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:46	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 07:46	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 07:46	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 07:46	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 07:46	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 07:46	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 07:46	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 07:46	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 07:46	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 07:46	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 07:46	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 07:46	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 07:46	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 07:46	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 07:46	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 07:46	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 07:46	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 07:46	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 07:46	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 07:46	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 07:46	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 07:46	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*94*	*1*	*100*	*94 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 07:46*	*DFM*	
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 07:46*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 07:46*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 07:46*	*DFM*	
Phenol-d5	*45*	*1*	*100*	*45 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 07:46*	*DFM*	
Terphenyl-d14	*42*	*1*	*50.0*	*84 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 07:46*	*DFM*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 20:38	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:38	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 20:38	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 20:38	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:38	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:38	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 20:38	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:38	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 20:38	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:38	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 20:38	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 20:38	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:38	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 20:38	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 20:38	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 20:38	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 20:38	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 20:38	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 20:38	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 20:38	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 20:38	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.75*	*1*	*1.00*	*75 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 20:38*	*MWC*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 20:38*	*MWC*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 20:38	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 20:38	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 20:38	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 20:38	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 20:38	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 20:38	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.71*	*1*	*1.00*	*71 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 20:38*	*MWC*	
Decachlorobiphenyl	*0.85*	*1*	*1.00*	*85 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 20:38*	*MWC*	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:49	T1D	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:05	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 16:10	JDH	
Barium [7440-39-3] ^	**182**		ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 16:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 16:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 16:10	JDH	
Chromium [7440-47-3] ^	**1.94**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 16:10	JDH	
Cobalt [7440-48-4] ^	**1.33**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 16:10	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 16:10	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 16:10	JDH	
Nickel [7440-02-0] ^	**25.9**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 16:10	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:05	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 16:10	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:05	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 16:10	JDH	
Vanadium [7440-62-2] ^	**1.87**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 16:10	JDH	
Zinc [7440-66-6] ^	**4.79**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 16:10	JDH	

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Description: 4103-II4A
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/10/14 15:11	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-II4A
Matrix: Ground Water
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Lab Sample ID: C413074-02
Sampled: 10/03/14 15:50
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 19:23	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 19:23	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 19:23	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 19:23	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 19:23	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*104 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 19:23*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 22:03	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 22:03	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 22:03	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 22:03	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 22:03	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 22:03	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 22:03	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 22:03	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 22:03	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 22:03	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 22:03	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 22:03	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 22:03	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 22:03	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 22:03	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 22:03	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 22:03	MSZ	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 22:03	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 22:03	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 22:03	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 22:03	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 22:03	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 22:03	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 22:03	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 22:03	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 22:03	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 22:03	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 22:03	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*64*	*1*	*50.0*	*128 %*	*53-136*	*4J10021*	*EPA 8260B*	*10/13/14 22:03*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*114 %*	*67-129*	*4J10021*	*EPA 8260B*	*10/13/14 22:03*	*MSZ*	
Toluene-d8	*63*	*1*	*50.0*	*126 %*	*59-134*	*4J10021*	*EPA 8260B*	*10/13/14 22:03*	*MSZ*	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 08:17	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 08:17	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 08:17	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 08:17	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 08:17	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 08:17	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 08:17	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 08:17	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 08:17	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 08:17	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 08:17	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 08:17	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 08:17	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 08:17	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 08:17	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 08:17	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 08:17	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 08:17	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 08:17	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 08:17	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 08:17	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 08:17	DFM	
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 08:17	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 08:17	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 08:17	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 08:17	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 08:17	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 08:17	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 08:17	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 08:17	DFM	
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 08:17	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 08:17	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 08:17	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 08:17	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 08:17	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 08:17	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 08:17	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 08:17	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 08:17	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 08:17	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 08:17	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 08:17	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 08:17	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 08:17	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*88*	*1*	*100*	*88 %*	*10-179*	*4J07034*	*EPA 8270D*	*10/21/14 08:17*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 08:17*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*4J07034*	*EPA 8270D*	*10/21/14 08:17*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*4J07034*	*EPA 8270D*	*10/21/14 08:17*	*DFM*	
Phenol-d5	*40*	*1*	*100*	*40 %*	*10-88*	*4J07034*	*EPA 8270D*	*10/21/14 08:17*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*88 %*	*10-188*	*4J07034*	*EPA 8270D*	*10/21/14 08:17*	*DFM*	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050		EPA 8081B	10/09/14 20:51	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:51	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050		EPA 8081B	10/09/14 20:51	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 20:51	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:51	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:51	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50		EPA 8081B	10/09/14 20:51	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:51	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 20:51	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050		EPA 8081B	10/09/14 20:51	MWC	QV-01
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 20:51	MWC	
Endosulfan I [959-98-8]	0.045	U	ug/L	1	0.045	0.050		EPA 8081B	10/09/14 20:51	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050		EPA 8081B	10/09/14 20:51	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050		EPA 8081B	10/09/14 20:51	MWC	QV-01
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050		EPA 8081B	10/09/14 20:51	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050		EPA 8081B	10/09/14 20:51	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050		EPA 8081B	10/09/14 20:51	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050		EPA 8081B	10/09/14 20:51	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050		EPA 8081B	10/09/14 20:51	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/09/14 20:51	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50		EPA 8081B	10/09/14 20:51	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.78*	*1*	*1.00*	*78 %*	*44-134*	*4J06036*	*EPA 8081B*	*10/09/14 20:51*	*MWC*	
Decachlorobiphenyl	*0.72*	*1*	*1.00*	*72 %*	*37-149*	*4J06036*	*EPA 8081B*	*10/09/14 20:51*	*MWC*	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/09/14 20:51	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 20:51	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 20:51	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/09/14 20:51	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/09/14 20:51	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/09/14 20:51	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.87*	*1*	*1.00*	*87 %*	*45-151*	*4J06037*	*EPA 8082A*	*10/09/14 20:51*	*MWC*	
Decachlorobiphenyl	*0.83*	*1*	*1.00*	*83 %*	*42-159*	*4J06037*	*EPA 8082A*	*10/09/14 20:51*	*MWC*	

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Description: 4103-II5
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-03
Sampled: 10/03/14 14:00
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:56	T1D	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:09	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/13/14 16:12	JDH	
Barium [7440-39-3] ^	**94.0**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/13/14 16:12	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/13/14 16:12	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/13/14 16:12	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/13/14 16:12	JDH	
Cobalt [7440-48-4] ^	**11.0**		ug/L	1	1.10	10.0	10	EPA 6010C	10/13/14 16:12	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/13/14 16:12	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/13/14 16:12	JDH	
Nickel [7440-02-0] ^	**2.99**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/13/14 16:12	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:09	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/13/14 16:12	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:09	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/13/14 16:12	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/13/14 16:12	JDH	
Zinc [7440-66-6] ^	**10.7**		ug/L	1	3.80	10.0	10	EPA 6010C	10/13/14 16:12	JDH	

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Description: 4103-II5
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413074-03
Sampled: 10/03/14 14:00
Sampled By: Gary Simcox

Received: 10/06/14 10:30
Work Order: C413074

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/10/14 15:13	c1v	
Sulfide [18496-25-8] ^	**0.011**	J	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/07/14 12:11	JOC	

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Description: 4103-II5 | **Lab Sample ID:** C413074-03 | **Received:** 10/06/14 10:30

Matrix: Ground Water | **Sampled:** 10/03/14 14:00 | **Work Order:** C413074

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 19:49	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 19:49	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 19:49	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 19:49	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 19:49	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*86 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 19:49*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J09041 - EPA 5030B_MS

Blank (4J09041-BLK1) Prepared: 10/09/2014 15:13 Analyzed: 10/12/2014 15:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J09041 - EPA 5030B_MS

Blank (4J09041-BLK1) Continued Prepared: 10/09/2014 15:13 Analyzed: 10/12/2014 15:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*114*	*67-129*			
Surrogate: Toluene-d8	*59*			*ug/L*	*50.0*		*118*	*59-134*			

LCS (4J09041-BS1) Prepared: 10/09/2014 15:13 Analyzed: 10/12/2014 16:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	75-133			
Benzene	19		1.0	ug/L	20.0		94	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		106	83-117			
Toluene	19		1.0	ug/L	20.0		97	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	74-119			

Matrix Spike (4J09041-MS1) Prepared: 10/09/2014 15:13 Analyzed: 10/12/2014 16:57

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	112	75-133			
Benzene	23		1.0	ug/L	20.0	1.9	106	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117			
Toluene	21		1.0	ug/L	20.0	0.70	102	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	109	74-119			

Matrix Spike Dup (4J09041-MSD1) Prepared: 10/09/2014 15:13 Analyzed: 10/12/2014 17:26

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	107	75-133	4	20	
Benzene	23		1.0	ug/L	20.0	1.9	105	81-134	0.8	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	106	83-117	2	16	
Toluene	22		1.0	ug/L	20.0	0.70	104	71-118	2	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	103	74-119	6	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J09041 - EPA 5030B_MS

Batch 4J10011 - EPA 5030B_MS

Blank (4J10011-BLK1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							QV-01
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							QV-01
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J10011 - EPA 5030B_MS

Blank (4J10011-BLK1) Continued Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							QV-01
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*53-136*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*67-129*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*59-134*			

LCS (4J10011-BS1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0		128	75-133			
Benzene	22		1.0	ug/L	20.0		108	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			

Matrix Spike (4J10011-MS1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 17:06

Source: C413192-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	127	75-133			
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119			

Matrix Spike Dup (4J10011-MSD1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 17:36

Source: C413192-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	115	75-133	9	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	101	81-134	5	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J10011 - EPA 5030B_MS

Matrix Spike Dup (4J10011-MSD1) Continued Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 17:36

Source: C413192-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	86	83-117	5	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	93	71-118	5	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	4	22	

Batch 4J10021 - EPA 5030B_MS

Blank (4J10021-BLK1) Prepared: 10/10/2014 11:37 Analyzed: 10/13/2014 14:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J10021 - EPA 5030B_MS

Blank (4J10021-BLK1) Continued Prepared: 10/10/2014 11:37 Analyzed: 10/13/2014 14:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*116*	*53-136*			
Surrogate: Dibromofluoromethane	*64*			*ug/L*	*50.0*		*129*	*67-129*			
Surrogate: Toluene-d8	*60*			*ug/L*	*50.0*		*121*	*59-134*			

LCS (4J10021-BS1) Prepared: 10/10/2014 11:37 Analyzed: 10/13/2014 15:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0		80	75-133			
Benzene	18		1.0	ug/L	20.0		90	81-134			
Chlorobenzene	17		1.0	ug/L	20.0		85	83-117			
Toluene	17		1.0	ug/L	20.0		83	71-118			
Trichloroethene	17		1.0	ug/L	20.0		87	74-119			

Matrix Spike (4J10021-MS1) Prepared: 10/10/2014 11:37 Analyzed: 10/13/2014 14:41

Source: C413192-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	99	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	92	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	85	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	90	74-119			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J10021 - EPA 5030B_MS

Matrix Spike Dup (4J10021-MSD1) Prepared: 10/10/2014 11:37 Analyzed: 10/13/2014 15:40

Source: C413192-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	83	75-133	17	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	86	81-134	7	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	89	83-117	0.8	16	
Toluene	17		1.0	ug/L	20.0	0.14 U	83	71-118	3	17	
Trichloroethene	16		1.0	ug/L	20.0	0.15 U	81	74-119	10	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J07034 - EPA 3510C_MS

Blank (4J07034-BLK1) Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 02:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J07034 - EPA 3510C_MS

Blank (4J07034-BLK1) Continued Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 02:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							QV-01
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							QV-01
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J07034 - EPA 3510C_MS

Blank (4J07034-BLK1) Continued Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 02:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*80*			*ug/L*	*100*		*80*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*91*	*10-149*			
Surrogate: 2-Fluorophenol	*57*			*ug/L*	*100*		*57*	*10-110*			
Surrogate: Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*77*	*10-149*			
Surrogate: Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-88*			
Surrogate: Terphenyl-d14	*46*			*ug/L*	*50.0*		*93*	*10-188*			

LCS (4J07034-BS1) Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 02:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0		75	40-109			
4-Chloro-3-methylphenol	37		10	ug/L	50.0		74	58-121			
4-Nitrophenol	22		10	ug/L	50.0		43	33-105			
Acenaphthene	43		10	ug/L	50.0		87	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0		82	48-126			
Phenol	23		10	ug/L	50.0		45	19-78			
Pyrene	47		10	ug/L	50.0		94	44-137			
Surrogate: 2,4,6-Tribromophenol	*93*			*ug/L*	*100*		*93*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*92*	*10-149*			
Surrogate: 2-Fluorophenol	*57*			*ug/L*	*100*		*57*	*10-110*			
Surrogate: Nitrobenzene-d5	*40*			*ug/L*	*50.0*		*81*	*10-149*			
Surrogate: Phenol-d5	*46*			*ug/L*	*100*		*46*	*10-88*			
Surrogate: Terphenyl-d14	*51*			*ug/L*	*50.0*		*102*	*10-188*			

Matrix Spike (4J07034-MS1) Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 03:12

Source: C412833-11

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J07034 - EPA 3510C_MS

Matrix Spike (4J07034-MS1) Continued Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 03:12

Source: C412833-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0	1.2 U	76	40-109			
4-Chloro-3-methylphenol	39		10	ug/L	50.0	1.5 U	77	58-121			
4-Nitrophenol	24		10	ug/L	50.0	2.0 U	48	33-105			
Acenaphthene	45		10	ug/L	50.0	1.4 U	89	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	81	48-126			
Phenol	25		10	ug/L	50.0	1.4 U	51	19-78			
Pyrene	49		10	ug/L	50.0	2.1 U	98	44-137			
Surrogate: 2,4,6-Tribromophenol	*91*			*ug/L*	*100*		*91*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*44*			*ug/L*	*50.0*		*88*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*50*			*ug/L*	*50.0*		*100*	*10-188*			

Matrix Spike Dup (4J07034-MSD1) Prepared: 10/07/2014 17:38 Analyzed: 10/21/2014 03:42

Source: C412833-11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	43		10	ug/L	50.0	1.2 U	85	40-109	12	22	
4-Chloro-3-methylphenol	43		10	ug/L	50.0	1.5 U	87	58-121	12	22	
4-Nitrophenol	30		10	ug/L	50.0	2.0 U	60	33-105	21	27	
Acenaphthene	48		10	ug/L	50.0	1.4 U	96	39-125	7	25	
N-Nitroso-di-n-propylamine	46		10	ug/L	50.0	1.5 U	92	48-126	12	23	
Phenol	28		10	ug/L	50.0	1.4 U	57	19-78	10	18	
Pyrene	50		10	ug/L	50.0	2.1 U	99	44-137	1	24	
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*104*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*92*	*10-149*			
Surrogate: 2-Fluorophenol	*63*			*ug/L*	*100*		*63*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*84*	*10-149*			
Surrogate: Phenol-d5	*54*			*ug/L*	*100*		*54*	*10-88*			
Surrogate: Terphenyl-d14	*50*			*ug/L*	*50.0*		*99*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 4J06036 - EPA 3510C

Blank (4J06036-BLK1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (n.o.s.)	0.020	U	0.50	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 4J06036 - EPA 3510C

Blank (4J06036-BLK1) Continued Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX [2C]	*0.58*			*ug/L*	*1.00*		*58*	*44-134*			
Surrogate: Decachlorobiphenyl [2C]	*0.52*			*ug/L*	*1.00*		*52*	*37-149*			

LCS (4J06036-BS1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	1.2		0.050	ug/L	1.00		117	35-141			
4,4'-DDE	1.0		0.050	ug/L	1.00		100	37-149			
4,4'-DDT	1.1		0.050	ug/L	1.00		108	35-142			
Aldrin	0.90		0.050	ug/L	1.00		90	38-137			
alpha-BHC	1.2		0.050	ug/L	1.00		118	42-136			
beta-BHC	1.2		0.050	ug/L	1.00		118	39-147			
Chlordane-alpha	1.1		0.050	ug/L	1.00		112	40-139			
Chlordane-gamma	1.1		0.050	ug/L	1.00		108	39-145			
delta-BHC	1.2		0.050	ug/L	1.00		119	10-115			
Dieldrin	1.2		0.050	ug/L	1.00		117	41-145			
Endosulfan I	1.2		0.050	ug/L	1.00		119	48-137			
Endosulfan II	1.1		0.050	ug/L	1.00		112	54-138			
Endosulfan sulfate	1.3		0.050	ug/L	1.00		126	45-125			
Endrin	1.2		0.050	ug/L	1.00		122	37-144			
Endrin aldehyde	1.0		0.050	ug/L	1.00		101	33-142			
gamma-BHC	1.2		0.050	ug/L	1.00		118	41-136			
Heptachlor	0.95		0.050	ug/L	1.00		95	39-135			
Heptachlor epoxide	1.2		0.050	ug/L	1.00		115	40-139			
Methoxychlor	1.1		0.050	ug/L	1.00		114	22-153			
Surrogate: 2,4,5,6-TCMX [2C]	*0.73*			*ug/L*	*1.00*		*73*	*44-134*			
Surrogate: Decachlorobiphenyl [2C]	*0.57*			*ug/L*	*1.00*		*57*	*37-149*			

Matrix Spike (4J06036-MS1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:39

Source: C412833-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.93		0.050	ug/L	1.00	0.044 U	93	35-141			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 4J06036 - EPA 3510C

Matrix Spike (4J06036-MS1) Continued Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:39

Source: C412833-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDE	0.81		0.050	ug/L	1.00	0.048 U	81	37-149			
4,4'-DDT	0.86		0.050	ug/L	1.00	0.049 U	86	35-142			
Aldrin	0.77		0.050	ug/L	1.00	0.041 U	77	38-137			
alpha-BHC	0.94		0.050	ug/L	1.00	0.036 U	94	42-136			
beta-BHC	0.93		0.050	ug/L	1.00	0.036 U	93	39-147			
Chlordane-alpha	0.88		0.050	ug/L	1.00	0.048 U	88	40-139			
Chlordane-gamma	0.85		0.050	ug/L	1.00	0.042 U	85	39-145			
delta-BHC	0.95		0.050	ug/L	1.00	0.048 U	95	10-115			
Dieldrin	0.93		0.050	ug/L	1.00	0.045 U	93	41-145			
Endosulfan I	0.88		0.050	ug/L	1.00	0.045 U	88	48-137			
Endosulfan II	0.88		0.050	ug/L	1.00	0.036 U	88	54-138			
Endosulfan sulfate	0.98		0.050	ug/L	1.00	0.032 U	98	45-125			
Endrin	0.90		0.050	ug/L	1.00	0.041 U	90	37-144			
Endrin aldehyde	0.73		0.050	ug/L	1.00	0.042 U	73	33-142			
gamma-BHC	0.95		0.050	ug/L	1.00	0.034 U	95	41-136			
Heptachlor	0.78		0.050	ug/L	1.00	0.030 U	78	39-135			
Heptachlor epoxide	0.90		0.050	ug/L	1.00	0.037 U	90	40-139			
Methoxychlor	0.96		0.050	ug/L	1.00	0.025 U	96	22-153			
Surrogate: 2,4,5,6-TCMX [2C]	*0.56*			*ug/L*	*1.00*		*56*	*44-134*			
Surrogate: Decachlorobiphenyl [2C]	*0.51*			*ug/L*	*1.00*		*51*	*37-149*			

Matrix Spike Dup (4J06036-MSD1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:52

Source: C412833-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.89		0.050	ug/L	1.00	0.044 U	89	35-141	5	33	
4,4'-DDE	0.81		0.050	ug/L	1.00	0.048 U	81	37-149	0.4	30	
4,4'-DDT	0.84		0.050	ug/L	1.00	0.049 U	84	35-142	2	34	
Aldrin	0.76		0.050	ug/L	1.00	0.041 U	76	38-137	0.7	31	
alpha-BHC	0.90		0.050	ug/L	1.00	0.036 U	90	42-136	4	26	
beta-BHC	0.89		0.050	ug/L	1.00	0.036 U	89	39-147	5	27	
Chlordane-alpha	0.86		0.050	ug/L	1.00	0.048 U	86	40-139	3	27	
Chlordane-gamma	0.84		0.050	ug/L	1.00	0.042 U	84	39-145	1	50	
delta-BHC	0.91		0.050	ug/L	1.00	0.048 U	91	10-115	4	29	
Dieldrin	0.90		0.050	ug/L	1.00	0.045 U	90	41-145	4	29	
Endosulfan I	0.89		0.050	ug/L	1.00	0.045 U	89	48-137	0.6	27	
Endosulfan II	0.84		0.050	ug/L	1.00	0.036 U	84	54-138	4	31	
Endosulfan sulfate	0.94		0.050	ug/L	1.00	0.032 U	94	45-125	5	30	
Endrin	0.90		0.050	ug/L	1.00	0.041 U	90	37-144	0.1	28	
Endrin aldehyde	0.72		0.050	ug/L	1.00	0.042 U	72	33-142	1	46	
gamma-BHC	0.91		0.050	ug/L	1.00	0.034 U	91	41-136	4	26	
Heptachlor	0.77		0.050	ug/L	1.00	0.030 U	77	39-135	2	27	
Heptachlor epoxide	0.87		0.050	ug/L	1.00	0.037 U	87	40-139	3	26	
Methoxychlor	0.90		0.050	ug/L	1.00	0.025 U	90	22-153	6	25	
Surrogate: 2,4,5,6-TCMX [2C]	*0.54*			*ug/L*	*1.00*		*54*	*44-134*			
Surrogate: Decachlorobiphenyl [2C]	*0.51*			*ug/L*	*1.00*		*51*	*37-149*			

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 4J06036 - EPA 3510C

Polychlorinated Biphenyls by GC - Quality Control

Batch 4J06037 - EPA 3510C

Blank (4J06037-BLK1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 14:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*0.53*			*ug/L*	*1.00*		*53*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.49*			*ug/L*	*1.00*		*49*	*42-159*			

LCS (4J06037-BS1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 15:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	8.8		0.50	ug/L	10.0		88	66-149			
PCB-1260	9.0		0.50	ug/L	10.0		90	64-150			
Surrogate: 2,4,5,6-TCMX	*0.62*			*ug/L*	*1.00*		*62*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.51*			*ug/L*	*1.00*		*51*	*42-159*			

Matrix Spike (4J06037-MS1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 15:19

Source: C412833-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	9.1		0.50	ug/L	10.0	0.43 U	91	66-149			
PCB-1260	8.8		0.50	ug/L	10.0	0.45 U	88	64-150			
Surrogate: 2,4,5,6-TCMX	*0.63*			*ug/L*	*1.00*		*63*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.52*			*ug/L*	*1.00*		*52*	*42-159*			

Matrix Spike Dup (4J06037-MSD1) Prepared: 10/06/2014 17:30 Analyzed: 10/09/2014 15:32

Source: C412833-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	8.4		0.50	ug/L	10.0	0.43 U	84	66-149	8	21	
PCB-1260	8.8		0.50	ug/L	10.0	0.45 U	88	64-150	0.2	18	
Surrogate: 2,4,5,6-TCMX	*0.56*			*ug/L*	*1.00*		*56*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.70*			*ug/L*	*1.00*		*70*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J13026 - EPA 7470A

Blank (4J13026-BLK1) Prepared: 10/13/2014 13:47 Analyzed: 10/14/2014 13:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J13026 - EPA 7470A

Blank (4J13026-BLK2) Prepared: 10/13/2014 13:47 Analyzed: 10/14/2014 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (4J13026-BS1) Prepared: 10/13/2014 13:47 Analyzed: 10/14/2014 13:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.31		0.200	ug/L	5.00		106	80-120			

Matrix Spike (4J13026-MS1) Prepared: 10/13/2014 13:47 Analyzed: 10/14/2014 13:40

Source: C412522-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	7.67		0.200	ug/L	5.00	2.12	111	75-125			

Matrix Spike Dup (4J13026-MSD1) Prepared: 10/13/2014 13:47 Analyzed: 10/14/2014 13:42

Source: C412522-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	7.99		0.200	ug/L	5.00	2.12	117	75-125	4	25	

Post Spike (4J13026-PS1) Prepared: 10/13/2014 13:47 Analyzed: 10/14/2014 13:44

Source: C412522-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.03		0.200	ug/L	5.00	2.12	78	75-125			

Batch 4J14015 - EPA 7470A

Blank (4J14015-BLK1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (4J14015-BS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.54		0.200	ug/L	5.00		111	80-120			

Matrix Spike (4J14015-MS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:23

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.11		0.200	ug/L	5.00	0.170 U	122	75-125			

Matrix Spike Dup (4J14015-MSD1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:29

Source: C411817-03

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J14015 - EPA 7470A

Matrix Spike Dup (4J14015-MSD1) Continued Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:29

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.25		0.200	ug/L	5.00	0.170 U	125	75-125	2	25	

Post Spike (4J14015-PS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:32

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.42		0.200	ug/L	5.00	0.0500	107	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J06025 - EPA 3005A

Blank (4J06025-BLK1) Prepared: 10/06/2014 10:38 Analyzed: 10/07/2014 13:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4J06025-BS1) Prepared: 10/06/2014 10:38 Analyzed: 10/07/2014 13:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	192		2.00	ug/L	200		96	80-120			
Selenium	216		3.00	ug/L	200		108	80-120			
Thallium	197		1.00	ug/L	200		98	80-120			

Matrix Spike (4J06025-MS1) Prepared: 10/06/2014 10:38 Analyzed: 10/07/2014 13:18

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	204		2.00	ug/L	200	1.13	101	75-125			
Selenium	215		3.00	ug/L	200	0.910 U	108	75-125			
Thallium	181		1.00	ug/L	200	0.110 U	91	75-125			

Matrix Spike Dup (4J06025-MSD1) Prepared: 10/06/2014 10:38 Analyzed: 10/07/2014 13:22

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	204		2.00	ug/L	200	1.13	101	75-125	0.08	20	
Selenium	215		3.00	ug/L	200	0.910 U	107	75-125	0.1	20	
Thallium	184		1.00	ug/L	200	0.110 U	92	75-125	1	20	

Post Spike (4J06025-PS1) Prepared: 10/06/2014 10:38 Analyzed: 10/07/2014 13:25

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J06025 - EPA 3005A

Post Spike (4J06025-PS1) Continued Prepared: 10/06/2014 10:38 Analyzed: 10/07/2014 13:25

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	189		2.00	ug/L	200	1.13	94	80-120			
Selenium	201		3.00	ug/L	200	0.373	101	80-120			
Thallium	172		1.00	ug/L	200	0.0455	86	80-120			

Batch 4J10014 - EPA 3005A

Blank (4J10014-BLK1) Prepared: 10/10/2014 10:50 Analyzed: 10/13/2014 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (4J10014-BS1) Prepared: 10/10/2014 10:50 Analyzed: 10/13/2014 14:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	189		10.0	ug/L	200		95	80-120			
Barium	202		10.0	ug/L	200		101	80-120			
Beryllium	19.4		1.00	ug/L	20.0		97	80-120			
Cadmium	20.1		1.00	ug/L	20.0		100	80-120			
Chromium	193		10.0	ug/L	200		96	80-120			
Cobalt	195		10.0	ug/L	200		98	80-120			
Copper	193		10.0	ug/L	200		97	80-120			
Lead	195		10.0	ug/L	200		97	80-120			
Nickel	203		10.0	ug/L	200		101	80-120			
Silver	197		10.0	ug/L	200		99	80-120			
Tin	194		10.0	ug/L	200		97	80-120			
Vanadium	188		10.0	ug/L	200		94	80-120			
Zinc	202		10.0	ug/L	200		101	80-120			

Matrix Spike (4J10014-MS1) Prepared: 10/10/2014 10:50 Analyzed: 10/13/2014 14:56

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	211		10.0	ug/L	200	6.68	102	75-125			
Barium	915		10.0	ug/L	200	719	98	75-125			
Beryllium	20.8		1.00	ug/L	20.0	0.100 U	104	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J10014 - EPA 3005A

Matrix Spike (4J10014-MS1) Continued Prepared: 10/10/2014 10:50 Analyzed: 10/13/2014 14:56

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	20.3		1.00	ug/L	20.0	0.360 U	102	75-125			
Chromium	209		10.0	ug/L	200	7.07	101	75-125			
Cobalt	218		10.0	ug/L	200	21.4	98	75-125			
Copper	206		10.0	ug/L	200	1.60 U	103	75-125			
Lead	202		10.0	ug/L	200	2.10 U	101	75-125			
Nickel	208		10.0	ug/L	200	2.99	102	75-125			
Silver	210		10.0	ug/L	200	2.17	104	75-125			
Tin	194		10.0	ug/L	200	2.10 U	97	75-125			
Vanadium	195		10.0	ug/L	200	1.40 U	98	75-125			
Zinc	209		10.0	ug/L	200	3.80 U	105	75-125			

Matrix Spike Dup (4J10014-MSD1) Prepared: 10/10/2014 10:50 Analyzed: 10/13/2014 15:07

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	221		10.0	ug/L	200	6.68	107	75-125	5	20	
Barium	951		10.0	ug/L	200	719	116	75-125	4	20	
Beryllium	21.6		1.00	ug/L	20.0	0.100 U	108	75-125	4	20	
Cadmium	21.8		1.00	ug/L	20.0	0.360 U	109	75-125	7	20	
Chromium	219		10.0	ug/L	200	7.07	106	75-125	5	20	
Cobalt	233		10.0	ug/L	200	21.4	106	75-125	7	20	
Copper	213		10.0	ug/L	200	1.60 U	107	75-125	4	20	
Lead	214		10.0	ug/L	200	2.10 U	107	75-125	5	20	
Nickel	221		10.0	ug/L	200	2.99	109	75-125	6	20	
Silver	217		10.0	ug/L	200	2.17	107	75-125	3	20	
Tin	205		10.0	ug/L	200	2.10 U	103	75-125	5	20	
Vanadium	204		10.0	ug/L	200	1.40 U	102	75-125	4	20	
Zinc	227		10.0	ug/L	200	3.80 U	113	75-125	8	20	

Post Spike (4J10014-PS1) Prepared: 10/10/2014 10:50 Analyzed: 10/13/2014 15:10

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.186		0.0100	mg/L	0.200	0.00668	90	80-120			
Barium	0.885		0.0100	mg/L	0.200	0.719	83	80-120			
Beryllium	0.0186		0.00100	mg/L	0.0200	1.60E-5	93	80-120			
Cadmium	0.0179		0.00100	mg/L	0.0200	-0.000158	89	80-120			
Chromium	0.187		0.0100	mg/L	0.200	0.00707	90	80-120			
Cobalt	0.194		0.0100	mg/L	0.200	0.0214	87	80-120			
Copper	0.183		0.0100	mg/L	0.200	-0.00445	92	80-120			
Lead	0.180		0.0100	mg/L	0.200	0.000146	90	80-120			
Nickel	0.185		0.0100	mg/L	0.200	0.00299	91	80-120			
Silver	0.197		0.0100	mg/L	0.200	0.00217	98	80-120			
Tin	0.175		0.0100	mg/L	0.200	-0.00288	87	80-120			
Vanadium	0.175		0.0100	mg/L	0.200	-0.00570	87	80-120			
Zinc	0.184		0.0100	mg/L	0.200	0.00143	91	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J10014 - EPA 3005A

Batch 4J10015 - EPA 3005A

Blank (4J10015-BLK1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 11:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4J10015-BS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200		102	80-120			
Selenium	213		3.00	ug/L	200		106	80-120			
Thallium	222		1.00	ug/L	200		111	80-120			

Matrix Spike (4J10015-MS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:16

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	199		2.00	ug/L	200	0.316	99	75-125			
Selenium	208		3.00	ug/L	200	0.910 U	104	75-125			
Thallium	207		1.00	ug/L	200	0.110 U	104	75-125			

Matrix Spike Dup (4J10015-MSD1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:19

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	0.316	98	75-125	1	20	
Selenium	209		3.00	ug/L	200	0.910 U	105	75-125	0.7	20	
Thallium	206		1.00	ug/L	200	0.110 U	103	75-125	0.6	20	

Post Spike (4J10015-PS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:23

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	0.316	98	80-120			
Selenium	201		3.00	ug/L	200	0.287	100	80-120			
Thallium	200		1.00	ug/L	200	0.0233	100	80-120			

Classical Chemistry Parameters - Quality Control

Batch 4J07004 - Same

Blank (4J07004-BLK1) Prepared: 10/07/2014 10:25 Analyzed: 10/09/2014 13:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (4J07004-BS1) Prepared: 10/07/2014 10:25 Analyzed: 10/09/2014 13:52

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J07004 - Same

LCS (4J07004-BS1) Continued Prepared: 10/07/2014 10:25 Analyzed: 10/09/2014 13:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		102	85-115			

Matrix Spike (4J07004-MS1) Prepared: 10/07/2014 10:25 Analyzed: 10/09/2014 13:56

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L	0.150	0.0049 U		85-115			QM-05

Matrix Spike Dup (4J07004-MSD1) Prepared: 10/07/2014 10:25 Analyzed: 10/09/2014 13:58

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L	0.150	0.0049 U		85-115		20	QM-05

Batch 4J07008 - NO PREP

Blank (4J07008-BLK1) Prepared: 10/07/2014 11:45 Analyzed: 10/07/2014 12:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (4J07008-BS1) Prepared: 10/07/2014 11:45 Analyzed: 10/07/2014 12:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.39		0.10	mg/L	0.401		97	80-120			

Duplicate (4J07008-DUP1) Prepared: 10/07/2014 11:45 Analyzed: 10/07/2014 12:11

Source: C411816-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L		0.010 U				25	

Matrix Spike (4J07008-MS1) Prepared: 10/07/2014 11:45 Analyzed: 10/07/2014 12:11

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L	0.401	0.010 U		80-120			QM-05

Matrix Spike Dup (4J07008-MSD1) Prepared: 10/07/2014 11:45 Analyzed: 10/07/2014 12:11

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	J	0.10	mg/L	0.401	0.010 U		80-120		25	QM-05

Batch 4J09005 - Same

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J09005 - Same

Blank (4J09005-BLK1) Prepared: 10/09/2014 09:52 Analyzed: 10/10/2014 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (4J09005-BS1) Prepared: 10/09/2014 09:52 Analyzed: 10/10/2014 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		101	85-115			

Matrix Spike (4J09005-MS1) Prepared: 10/09/2014 12:46 Analyzed: 10/10/2014 15:07

Source: C413074-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.031		0.010	mg/L	0.150	0.0049 U	21	85-115			QM-05

Matrix Spike Dup (4J09005-MSD1) Prepared: 10/09/2014 12:46 Analyzed: 10/10/2014 15:09

Source: C413074-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	92	85-115	126	20	QM-11

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J07026 - EPA 3510C

Blank (4J07026-BLK1) Prepared: 10/07/2014 14:35 Analyzed: 10/09/2014 15:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*96*	*68-139*			

LCS (4J07026-BS1) Prepared: 10/07/2014 14:35 Analyzed: 10/09/2014 16:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		98	70-114			
2,4-D	1.8		0.50	ug/L	2.00		91	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*98*	*68-139*			

Matrix Spike (4J07026-MS1) Prepared: 10/07/2014 14:35 Analyzed: 10/09/2014 16:29

Source: A405821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00	0.44 U	102	70-114			

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J07026 - EPA 3510C

Matrix Spike (4J07026-MS1) Continued Prepared: 10/07/2014 14:35 Analyzed: 10/09/2014 16:29

Source: A405821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4-D	1.8		0.50	ug/L	2.00	0.27 U	89	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*98*	*68-139*			

Matrix Spike Dup (4J07026-MSD1) Prepared: 10/07/2014 14:35 Analyzed: 10/09/2014 16:55

Source: A405821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.44 U	94	70-114	8	15	
2,4-D	1.8		0.50	ug/L	2.00	0.27 U	90	37-129	2	33	
Surrogate: 2,4-DCAA	*1.9*			*ug/L*	*2.00*		*95*	*68-139*			

Batch 4J10022 - EPA 3510C

Blank (4J10022-BLK1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*99*	*68-139*			

LCS (4J10022-BS1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		98	70-114			
2,4-D	2.0		0.50	ug/L	2.00		101	37-129			
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*115*	*68-139*			

Matrix Spike (4J10022-MS1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:27

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00	0.44 U	89	70-114			
2,4-D	2.0		0.50	ug/L	2.00	0.27 U	98	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*101*	*68-139*			

Matrix Spike Dup (4J10022-MSD1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:53

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.44 U	97	70-114	9	15	
2,4-D	2.0		0.50	ug/L	2.00	0.27 U	101	37-129	3	33	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J10022 - EPA 3510C

Matrix Spike Dup (4J10022-MSD1) Continued Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:53

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

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Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill App IIs
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Gail Hay
Sampler(s) Name, Affiliation (Print): GARY SIMCOX / S&ME	Billing Contact: Gail Hay
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C411816

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2, 8151A Appendix 2, 8270D Appendix 2	8260B Appendix 2, 8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total 9014	Hg	Sulfide SM4500-S D				Sample Comments
	~~4103-II4~~ DUPLICATE II	10/3/14	0800	G	GW	9	X	X	X	X	X	X	X				
	4103-II2	10/3/14	0845	G	GW	9	X	X	X	X	X	X	X				
	~~4103-II3~~ TRIP BLANK #2				GW	9	~~X~~	~~X~~	X	~~X~~	~~X~~	~~X~~	~~X~~				
	4103-II4A				GW	9	X	X	X	X	X	X	X				
	4103-II5				GW	9	X	X	X	X	X	X	X				
	4103-II6	10/2/14	1835	G	GW	9	X	X	X	X	X	X	X				
	4103-II7	10/2/14	1620	G	GW	9	X	X	X	X	X	X	X				
	4103-II7B	10/2/14	1944	G	GW	9	X	X	X	X	X	X	X				
	4103-II8				GW	9	X	X	X	X	X	X	X				
	4103-II12				GW	9	X	X	X	X	X	X	X				
	4103-MW13				GW	9	X	X	X	X	X	X	X				
	4103-MW14				GW	9	X	X	X	X	X	X	X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: [signature]	Date/Time: 10/3/14	Received By: B.W.	Date/Time: 10/3/14 9:30
Comments/Special Reporting Requirements		Relinquished By: B.W.	Date/Time: 10/3/14 11:30	Received By: [signature]	Date/Time: 10/3/14 11:30
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-155 C-781 C-700 C-622 C-712		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

C-850 C-900 3.0c

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Cary, NC 27511
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Page ____ of ____

Client Name: CITY OF GREENSBORO	Project Number:
Address: 2503 WHITE ST.	Project Name/Desc: WHITE STREET LANDFILL APPII'S
City/ST/Zip:	PO # / Billing Info:
Tel: / Fax:	Reporting Contact: GAIL HAY
Sampler(s) Name, Affiliation (Print): GARY SIMCOX / S&ME, INC	Billing Contact: GAIL HAY
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C413074

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B APP 2	8082A APP 2, 8151A APP 2 8270D APP 2	8260B APP 2, 8260B EXTENDED	Ag As Ba Be Ca Co Cr Cu Fe Pb Mg Mn Mo Ni K Se Na Tl V Zn	CYANIDE TOTAL 9014	Hg	SULFATE SM4500-SO				Sample Comments
	II-3	10/3/14	1200	G	GW	9	X	X	X	X	X	X	X				
	II-4A	10/3/14	1550	G	GW	9	X	X	X	X	X	X	X				
	II-5	10/3/14	1400	G	GW	9	X	X	X	X	X	X	X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
			10/6/14 0630		10-6-14 10:30
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.2°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, October 16, 2014

City of Greensboro (CI034)

Attn: Gail Hay

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill Surface Waters
ENCO Workorder(s): C411822

Dear Gail Hay,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, October 2, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz For Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 30.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-SW1 **Lab ID: C411822-01** **Sampled: 10/02/14 08:05** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/31/15	10/03/14	11:40	10/10/2014 11:31
EPA 6020A	03/31/15	10/03/14	11:38	10/9/2014 12:36

Client ID: 4103-SW1 **Lab ID: C411822-01RE1** **Sampled: 10/02/14 08:05** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/16/14	10/10/14	10:23	10/14/2014 14:16

Client ID: 4103-SW2 **Lab ID: C411822-02** **Sampled: 10/01/14 16:30** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/30/15	10/03/14	11:40	10/10/2014 11:33
EPA 6020A	03/30/15	10/03/14	11:38	10/9/2014 12:40

Client ID: 4103-SW2 **Lab ID: C411822-02RE1** **Sampled: 10/01/14 16:30** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/15/14	10/13/14	17:51	10/14/2014 14:46

Client ID: 4103-SW3 **Lab ID: C411822-03** **Sampled: 10/02/14 07:35** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/31/15	10/03/14	11:40	10/10/2014 12:17
EPA 6020A	03/31/15	10/03/14	11:38	10/9/2014 13:00

Client ID: 4103-SW3 **Lab ID: C411822-03RE1** **Sampled: 10/02/14 07:35** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/16/14	10/10/14	10:23	10/14/2014 15:16

Client ID: 4103-SW4 **Lab ID: C411822-04** **Sampled: 10/02/14 06:50** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	03/31/15	10/03/14	11:40	10/10/2014 12:20
EPA 6020A	03/31/15	10/03/14	11:38	10/9/2014 13:03

Client ID: 4103-SW4 **Lab ID: C411822-04RE1** **Sampled: 10/02/14 06:50** **Received: 10/02/14 12:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/16/14	10/10/14	10:23	10/14/2014 15:45

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Client ID: 4103-SW5	Lab ID: C411822-05	Sampled: 10/01/14 16:00	Received: 10/02/14 12:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	03/30/15	10/03/14 11:40	10/10/2014 12:22
EPA 6020A	03/30/15	10/03/14 11:38	10/9/2014 13:07
EPA 8260B	10/15/14	10/09/14 14:23	10/10/2014 18:44

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-SW1 **Lab ID: C411822-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.526	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	6.11	J	1	5.40	10.0	10	ug/L	EPA 6010C	
Barium - Total	112		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.661	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	20.6	B	1	1.40	10.0	10	ug/L	EPA 6010C	QB-01
Cobalt - Total	8.95	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	30.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	21.1		1	2.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	7.25	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	42.2		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	144		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW1 **Lab ID: C411822-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloroform	1.2	J	1	0.18	1.0	5	ug/L	EPA 8260B	

Client ID: 4103-SW2 **Lab ID: C411822-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	45.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.13	JB	1	1.40	10.0	10	ug/L	EPA 6010C	J-01
Copper - Total	1.82	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Zinc - Total	3.94	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW3 **Lab ID: C411822-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.378	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	22.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	13.4	B	1	1.40	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	4.56	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	6.82	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	23.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	3.14	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	63.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SW3 **Lab ID: C411822-03RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloroform	0.95	J	1	0.18	1.0	5	ug/L	EPA 8260B	

Client ID: 4103-SW4 **Lab ID: C411822-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.268	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	24.4	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.50	JB	1	1.40	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	2.46	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.42	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	9.96	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	2.66	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	34.9		1	3.80	10.0	10	ug/L	EPA 6010C	

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Client ID: 4103-SW4								Lab ID: C411822-04RE1	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Chloroform	1.0	J	1	0.18	1.0	5	ug/L	EPA 8260B	

Client ID: 4103-SW5								Lab ID: C411822-05	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	0.267	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	25.1	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.70	JB	1	1.40	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	2.45	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.30	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Methylene chloride	0.77	J	1	0.23	1.0	1	ug/L	EPA 8260B	
Nickel - Total	10.6	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	2.26	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	34.0		1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4103-SW1 **Lab Sample ID:** C411822-01 **Received:** 10/02/14 12:30

Matrix: Surface Water **Sampled:** 10/02/14 08:05 **Work Order:** C411822

Project: White Street Landfill Surface Waters **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/14 14:16	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/14 14:16	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/14 14:16	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/14 14:16	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/14 14:16	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/14 14:16	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/14 14:16	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/14 14:16	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/14 14:16	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/14 14:16	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/14 14:16	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 14:16	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/14 14:16	MSZ	
Chloroform [67-66-3] ^	**1.2**	J	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 14:16	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/14 14:16	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/14 14:16	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 14:16	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/14 14:16	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	

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Description: 4103-SW1
Matrix: Surface Water
Project: White Street Landfill Surface Waters

Lab Sample ID: C411822-01
Sampled: 10/02/14 08:05
Sampled By: Gary Simcox

Received: 10/02/14 12:30
Work Order: C411822

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/14 14:16	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/14 14:16	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/14 14:16	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*120 %*	*53-136*	*4J13034*	*EPA 8260B*	*10/14/14 14:16*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*114 %*	*67-129*	*4J13034*	*EPA 8260B*	*10/14/14 14:16*	*MSZ*	
Toluene-d8	*62*	*1*	*50.0*	*125 %*	*59-134*	*4J13034*	*EPA 8260B*	*10/14/14 14:16*	*MSZ*	

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Description: 4103-SW1 | **Lab Sample ID:** C411822-01 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/02/14 08:05 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.526**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/09/14 12:36	VLO	
Arsenic [7440-38-2] ^	**6.11**	J	ug/L	1	5.40	10.0	10	EPA 6010C	10/10/14 11:31	JDH	
Barium [7440-39-3] ^	**112**		ug/L	1	1.00	10.0	100	EPA 6010C	10/10/14 11:31	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/10/14 11:31	JDH	
Cadmium [7440-43-9] ^	**0.661**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/10/14 11:31	JDH	
Chromium [7440-47-3] ^	**20.6**	B	ug/L	1	1.40	10.0	10	EPA 6010C	10/10/14 11:31	JDH	QB-01
Cobalt [7440-48-4] ^	**8.95**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/10/14 11:31	JDH	
Copper [7440-50-8] ^	**30.9**		ug/L	1	1.60	10.0	10	EPA 6010C	10/10/14 11:31	JDH	
Lead [7439-92-1] ^	**21.1**		ug/L	1	2.10	10.0	10	EPA 6010C	10/10/14 11:31	JDH	
Nickel [7440-02-0] ^	**7.25**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/10/14 11:31	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/09/14 12:36	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/10/14 11:31	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/09/14 12:36	VLO	
Vanadium [7440-62-2] ^	**42.2**		ug/L	1	1.40	10.0	25	EPA 6010C	10/10/14 11:31	JDH	
Zinc [7440-66-6] ^	**144**		ug/L	1	3.80	10.0	10	EPA 6010C	10/10/14 11:31	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SW2 | **Lab Sample ID:** C411822-02 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/01/14 16:30 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/14 14:46	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/14 14:46	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/14 14:46	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/14 14:46	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/14 14:46	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/14 14:46	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/14 14:46	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/14 14:46	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/14 14:46	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/14 14:46	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/14 14:46	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 14:46	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/14 14:46	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 14:46	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/14 14:46	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/14 14:46	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 14:46	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/14 14:46	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/14 14:46	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/14 14:46	MSZ	

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Description: 4103-SW2
Matrix: Surface Water
Project: White Street Landfill Surface Waters

Lab Sample ID: C411822-02
Sampled: 10/01/14 16:30
Sampled By: Gary Simcox

Received: 10/02/14 12:30
Work Order: C411822

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/14 14:46	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*114 %*	*53-136*	*4J13034*	*EPA 8260B*	*10/14/14 14:46*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*111 %*	*67-129*	*4J13034*	*EPA 8260B*	*10/14/14 14:46*	*MSZ*	
Toluene-d8	*60*	*1*	*50.0*	*119 %*	*59-134*	*4J13034*	*EPA 8260B*	*10/14/14 14:46*	*MSZ*	

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Description: 4103-SW2 | **Lab Sample ID:** C411822-02 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/01/14 16:30 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/09/14 12:40	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/10/14 11:33	JDH	
Barium [7440-39-3] ^	**45.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/10/14 11:33	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/10/14 11:33	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/10/14 11:33	JDH	
Chromium [7440-47-3] ^	**2.13**	JB	ug/L	1	1.40	10.0	10	EPA 6010C	10/10/14 11:33	JDH	J-01
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/10/14 11:33	JDH	
Copper [7440-50-8] ^	**1.82**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/10/14 11:33	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/10/14 11:33	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/10/14 11:33	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/09/14 12:40	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/10/14 11:33	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/09/14 12:40	VLO	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/10/14 11:33	JDH	
Zinc [7440-66-6] ^	**3.94**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/10/14 11:33	JDH	

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Description: 4103-SW3 | **Lab Sample ID:** C411822-03 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/02/14 07:35 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/14 15:16	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/14 15:16	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/14 15:16	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/14 15:16	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/14 15:16	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/14 15:16	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/14 15:16	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/14 15:16	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/14 15:16	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/14 15:16	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/14 15:16	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 15:16	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/14 15:16	MSZ	
Chloroform [67-66-3] ^	**0.95**	J	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 15:16	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/14 15:16	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/14 15:16	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 15:16	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/14 15:16	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/14 15:16	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/14 15:16	MSZ	

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Description:	4103-SW3	**Lab Sample ID:**	C411822-03	**Received:**	10/02/14 12:30
Matrix:	Surface Water	**Sampled:**	10/02/14 07:35	**Work Order:**	C411822
Project:	White Street Landfill Surface Waters	**Sampled By:**	Gary Simcox		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/14 15:16	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*115 %*	*53-136*	*4J13034*	*EPA 8260B*	*10/14/14 15:16*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*115 %*	*67-129*	*4J13034*	*EPA 8260B*	*10/14/14 15:16*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*59-134*	*4J13034*	*EPA 8260B*	*10/14/14 15:16*	*MSZ*	

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Description: 4103-SW3 | **Lab Sample ID:** C411822-03 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/02/14 07:35 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.378**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/09/14 13:00	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/10/14 12:17	JDH	
Barium [7440-39-3] ^	**22.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/10/14 12:17	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/10/14 12:17	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/10/14 12:17	JDH	
Chromium [7440-47-3] ^	**13.4**	B	ug/L	1	1.40	10.0	10	EPA 6010C	10/10/14 12:17	JDH	J-01
Cobalt [7440-48-4] ^	**4.56**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/10/14 12:17	JDH	
Copper [7440-50-8] ^	**6.82**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/10/14 12:17	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/10/14 12:17	JDH	
Nickel [7440-02-0] ^	**23.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/10/14 12:17	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/09/14 13:00	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/10/14 12:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/09/14 13:00	VLO	
Vanadium [7440-62-2] ^	**3.14**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/10/14 12:17	JDH	
Zinc [7440-66-6] ^	**63.6**		ug/L	1	3.80	10.0	10	EPA 6010C	10/10/14 12:17	JDH	

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Description: 4103-SW4 | **Lab Sample ID:** C411822-04 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/02/14 06:50 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/14/14 15:45	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/14/14 15:45	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/14/14 15:45	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/14/14 15:45	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/14/14 15:45	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/14/14 15:45	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/14/14 15:45	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/14/14 15:45	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/14/14 15:45	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/14/14 15:45	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/14/14 15:45	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 15:45	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/14/14 15:45	MSZ	
Chloroform [67-66-3] ^	**1.0**	J	ug/L	1	0.18	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/14/14 15:45	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/14/14 15:45	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/14/14 15:45	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/14/14 15:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/14/14 15:45	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/14/14 15:45	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/14/14 15:45	MSZ	

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Description: 4103-SW4
Matrix: Surface Water
Project: White Street Landfill Surface Waters

Lab Sample ID: C411822-04
Sampled: 10/02/14 06:50
Sampled By: Gary Simcox

Received: 10/02/14 12:30
Work Order: C411822

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/14/14 15:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*121 %*	*53-136*	*4J13034*	*EPA 8260B*	*10/14/14 15:45*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*4J13034*	*EPA 8260B*	*10/14/14 15:45*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*116 %*	*59-134*	*4J13034*	*EPA 8260B*	*10/14/14 15:45*	*MSZ*	

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Description: 4103-SW4 | **Lab Sample ID:** C411822-04 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/02/14 06:50 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.268**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/09/14 13:03	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/10/14 12:20	JDH	
Barium [7440-39-3] ^	**24.4**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/10/14 12:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/10/14 12:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/10/14 12:20	JDH	
Chromium [7440-47-3] ^	**2.50**	JB	ug/L	1	1.40	10.0	10	EPA 6010C	10/10/14 12:20	JDH	J-01
Cobalt [7440-48-4] ^	**2.46**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/10/14 12:20	JDH	
Copper [7440-50-8] ^	**5.42**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/10/14 12:20	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/10/14 12:20	JDH	
Nickel [7440-02-0] ^	**9.96**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/10/14 12:20	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/09/14 13:03	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/10/14 12:20	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/09/14 13:03	VLO	
Vanadium [7440-62-2] ^	**2.66**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/10/14 12:20	JDH	
Zinc [7440-66-6] ^	**34.9**		ug/L	1	3.80	10.0	10	EPA 6010C	10/10/14 12:20	JDH	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SW5 | **Lab Sample ID:** C411822-05 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/01/14 16:00 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/10/14 18:44	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/10/14 18:44	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/10/14 18:44	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/10/14 18:44	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/10/14 18:44	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/10/14 18:44	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/10/14 18:44	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/10/14 18:44	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/10/14 18:44	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/10/14 18:44	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/10/14 18:44	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/10/14 18:44	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/10/14 18:44	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/10/14 18:44	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/10/14 18:44	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/10/14 18:44	MSZ	
Methylene chloride [75-09-2] ^	**0.77**	J	ug/L	1	0.23	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/10/14 18:44	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/10/14 18:44	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/10/14 18:44	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/10/14 18:44	MSZ	

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Description: 4103-SW5
Matrix: Surface Water
Project: White Street Landfill Surface Waters

Lab Sample ID: C411822-05
Sampled: 10/01/14 16:00
Sampled By: Gary Simcox

Received: 10/02/14 12:30
Work Order: C411822

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/10/14 18:44	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*120 %*	*53-136*	*4J09039*	*EPA 8260B*	*10/10/14 18:44*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*108 %*	*67-129*	*4J09039*	*EPA 8260B*	*10/10/14 18:44*	*MSZ*	
Toluene-d8	*57*	*1*	*50.0*	*113 %*	*59-134*	*4J09039*	*EPA 8260B*	*10/10/14 18:44*	*MSZ*	

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Description: 4103-SW5 | **Lab Sample ID:** C411822-05 | **Received:** 10/02/14 12:30

Matrix: Surface Water | **Sampled:** 10/01/14 16:00 | **Work Order:** C411822

Project: White Street Landfill Surface Waters | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.267**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/09/14 13:07	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/10/14 12:22	JDH	
Barium [7440-39-3] ^	**25.1**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/10/14 12:22	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/10/14 12:22	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/10/14 12:22	JDH	
Chromium [7440-47-3] ^	**2.70**	JB	ug/L	1	1.40	10.0	10	EPA 6010C	10/10/14 12:22	JDH	J-01
Cobalt [7440-48-4] ^	**2.45**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/10/14 12:22	JDH	
Copper [7440-50-8] ^	**5.30**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/10/14 12:22	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/10/14 12:22	JDH	
Nickel [7440-02-0] ^	**10.6**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/10/14 12:22	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/09/14 13:07	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/10/14 12:22	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/09/14 13:07	VLO	
Vanadium [7440-62-2] ^	**2.26**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/10/14 12:22	JDH	
Zinc [7440-66-6] ^	**34.0**		ug/L	1	3.80	10.0	10	EPA 6010C	10/10/14 12:22	JDH	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J09039 - EPA 5030B_MS

Blank (4J09039-BLK1) Prepared: 10/09/2014 14:23 Analyzed: 10/10/2014 09:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*57*			*ug/L*	*50.0*		*115*	*53-136*			

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J09039 - EPA 5030B_MS

Blank (4J09039-BLK1) Continued Prepared: 10/09/2014 14:23 Analyzed: 10/10/2014 09:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*59*			*ug/L*	*50.0*		*117*	*67-129*			
Surrogate: Toluene-d8	*57*			*ug/L*	*50.0*		*114*	*59-134*			

LCS (4J09039-BS1) Prepared: 10/09/2014 14:23 Analyzed: 10/10/2014 10:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		95	75-133			
Benzene	18		1.0	ug/L	20.0		91	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		89	83-117			
Toluene	17		1.0	ug/L	20.0		85	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	74-119			

Matrix Spike (4J09039-MS1) Prepared: 10/09/2014 14:23 Analyzed: 10/10/2014 10:55

Source: C413192-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	99	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	83-117			
Toluene	19		1.0	ug/L	20.0	0.14 U	96	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	106	74-119			

Matrix Spike Dup (4J09039-MSD1) Prepared: 10/09/2014 14:23 Analyzed: 10/10/2014 11:24

Source: C413192-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133	9	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	96	81-134	3	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117	12	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	91	71-118	6	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119	6	22	

Batch 4J10011 - EPA 5030B_MS

Blank (4J10011-BLK1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							QV-01
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4J10011 - EPA 5030B_MS

Blank (4J10011-BLK1) Continued Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							QV-01
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							QV-01
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*53-136*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*67-129*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*59-134*			

LCS (4J10011-BS1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	26		1.0	ug/L	20.0		128	75-133			QV-01
Benzene	22		1.0	ug/L	20.0		108	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			

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Batch 4J10011 - EPA 5030B_MS

LCS (4J10011-BS1) Continued Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 16:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	20		1.0	ug/L	20.0		100	74-119			

Matrix Spike (4J10011-MS1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 17:06

Source: C413192-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.21 U	127	75-133			QV-01
Benzene	21		1.0	ug/L	20.0	0.15 U	106	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	83-117			
Toluene	20		1.0	ug/L	20.0	0.14 U	98	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119			

Matrix Spike Dup (4J10011-MSD1) Prepared: 10/10/2014 10:23 Analyzed: 10/12/2014 17:36

Source: C413192-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0	0.21 U	115	75-133	9	20	QV-01
Benzene	20		1.0	ug/L	20.0	0.15 U	101	81-134	5	17	
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	86	83-117	5	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	93	71-118	5	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	93	74-119	4	22	

Batch 4J13034 - EPA 5030B_MS

Blank (4J13034-BLK1) Prepared: 10/13/2014 17:51 Analyzed: 10/14/2014 09:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4J13034 - EPA 5030B_MS

Blank (4J13034-BLK1) Continued Prepared: 10/13/2014 17:51 Analyzed: 10/14/2014 09:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*60*			*ug/L*	*50.0*		*121*	*53-136*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*107*	*67-129*			
Surrogate: Toluene-d8	*57*			*ug/L*	*50.0*		*115*	*59-134*			

LCS (4J13034-BS1) Prepared: 10/13/2014 17:51 Analyzed: 10/14/2014 09:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		92	75-133			
Benzene	17		1.0	ug/L	20.0		85	81-134			
Chlorobenzene	17		1.0	ug/L	20.0		83	83-117			
Toluene	16		1.0	ug/L	20.0		81	71-118			
Trichloroethene	16		1.0	ug/L	20.0		78	74-119			

Matrix Spike (4J13034-MS1) Prepared: 10/13/2014 17:51 Analyzed: 10/14/2014 10:50

Source: C413325-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	112	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	83-117			
Toluene	16		1.0	ug/L	20.0	0.14 U	82	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119			

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Volatile Organic Compounds by GCMS - Quality Control

Batch 4J13034 - EPA 5030B_MS

Matrix Spike Dup (4J13034-MSD1) Prepared: 10/13/2014 17:51 Analyzed: 10/14/2014 11:19

Source: C413325-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	121	75-133	8	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	98	81-134	4	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	96	83-117	7	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	91	71-118	11	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119	2	22	

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J03012 - EPA 3005A

Blank (4J03012-BLK1) Prepared: 10/03/2014 11:38 Analyzed: 10/09/2014 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4J03012-BS1) Prepared: 10/03/2014 11:38 Analyzed: 10/09/2014 11:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	201		2.00	ug/L	200		100	80-120			
Selenium	220		3.00	ug/L	200		110	80-120			
Thallium	202		1.00	ug/L	200		101	80-120			

Matrix Spike (4J03012-MS1) Prepared: 10/03/2014 11:38 Analyzed: 10/09/2014 11:27

Source: C411819-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	207		2.00	ug/L	200	1.25	103	75-125			
Selenium	221		3.00	ug/L	200	0.910 U	110	75-125			
Thallium	196		1.00	ug/L	200	0.110 U	98	75-125			

Matrix Spike Dup (4J03012-MSD1) Prepared: 10/03/2014 11:38 Analyzed: 10/09/2014 11:30

Source: C411819-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200	1.25	104	75-125	2	20	
Selenium	216		3.00	ug/L	200	0.910 U	108	75-125	2	20	
Thallium	201		1.00	ug/L	200	0.110 U	100	75-125	3	20	

Post Spike (4J03012-PS1) Prepared: 10/03/2014 11:38 Analyzed: 10/09/2014 11:34

Source: C411819-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	197		2.00	ug/L	200	1.25	98	80-120			

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QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J03012 - EPA 3005A

Post Spike (4J03012-PS1) Continued Prepared: 10/03/2014 11:38 Analyzed: 10/09/2014 11:34

Source: C411819-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	206		3.00	ug/L	200	0.753	102	80-120			
Thallium	190		1.00	ug/L	200	0.0899	95	80-120			

Batch 4J03013 - EPA 3005A

Blank (4J03013-BLK1) Prepared: 10/03/2014 11:40 Analyzed: 10/10/2014 10:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	**1.43**	**J**	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (4J03013-BS1) Prepared: 10/03/2014 11:40 Analyzed: 10/10/2014 10:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	213		10.0	ug/L	200		106	80-120			
Barium	213		10.0	ug/L	200		107	80-120			
Beryllium	21.2		1.00	ug/L	20.0		106	80-120			
Cadmium	20.9		1.00	ug/L	20.0		104	80-120			
Chromium	209	B	10.0	ug/L	200		104	80-120			
Cobalt	209		10.0	ug/L	200		104	80-120			
Copper	208		10.0	ug/L	200		104	80-120			
Lead	209		10.0	ug/L	200		104	80-120			
Nickel	213		10.0	ug/L	200		107	80-120			
Silver	207		10.0	ug/L	200		104	80-120			
Vanadium	204		10.0	ug/L	200		102	80-120			
Zinc	214		10.0	ug/L	200		107	80-120			

Matrix Spike (4J03013-MS1) Prepared: 10/03/2014 11:40 Analyzed: 10/10/2014 10:44

Source: C411819-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	203		10.0	ug/L	200	5.40 U	102	75-125			
Barium	230		10.0	ug/L	200	22.1	104	75-125			
Beryllium	20.6		1.00	ug/L	20.0	0.100 U	103	75-125			
Cadmium	20.3		1.00	ug/L	20.0	0.360 U	102	75-125			
Chromium	201	B	10.0	ug/L	200	1.40 U	101	75-125			
Cobalt	203		10.0	ug/L	200	1.10 U	102	75-125			

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QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J03013 - EPA 3005A

Matrix Spike (4J03013-MS1) Continued Prepared: 10/03/2014 11:40 Analyzed: 10/10/2014 10:44

Source: C411819-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	202		10.0	ug/L	200	1.60 U	101	75-125			
Lead	203		10.0	ug/L	200	2.10 U	102	75-125			
Nickel	208		10.0	ug/L	200	1.80 U	104	75-125			
Silver	201		10.0	ug/L	200	1.90 U	100	75-125			
Vanadium	198		10.0	ug/L	200	1.40 U	99	75-125			
Zinc	211		10.0	ug/L	200	3.80 U	105	75-125			

Matrix Spike Dup (4J03013-MSD1) Prepared: 10/03/2014 11:40 Analyzed: 10/10/2014 10:46

Source: C411819-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	210		10.0	ug/L	200	5.40 U	105	75-125	3	20	
Barium	239		10.0	ug/L	200	22.1	108	75-125	4	20	
Beryllium	21.3		1.00	ug/L	20.0	0.100 U	107	75-125	3	20	
Cadmium	21.1		1.00	ug/L	20.0	0.360 U	105	75-125	4	20	
Chromium	208	B	10.0	ug/L	200	1.40 U	104	75-125	3	20	
Cobalt	211		10.0	ug/L	200	1.10 U	106	75-125	4	20	
Copper	210		10.0	ug/L	200	1.60 U	105	75-125	4	20	
Lead	212		10.0	ug/L	200	2.10 U	106	75-125	4	20	
Nickel	216		10.0	ug/L	200	1.80 U	108	75-125	4	20	
Silver	207		10.0	ug/L	200	1.90 U	104	75-125	3	20	
Vanadium	204		10.0	ug/L	200	1.40 U	102	75-125	3	20	
Zinc	218		10.0	ug/L	200	3.80 U	109	75-125	4	20	

Post Spike (4J03013-PS1) Prepared: 10/03/2014 11:40 Analyzed: 10/10/2014 10:49

Source: C411819-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.193		0.0100	mg/L	0.200	0.000603	96	80-120			
Barium	0.220		0.0100	mg/L	0.200	0.0221	99	80-120			
Beryllium	0.0188		0.00100	mg/L	0.0200	-2.11E-5	94	80-120			
Cadmium	0.0194		0.00100	mg/L	0.0200	1.44E-6	97	80-120			
Chromium	0.185	B	0.0100	mg/L	0.200	0.00108	92	80-120			
Cobalt	0.193		0.0100	mg/L	0.200	0.000730	96	80-120			
Copper	0.185		0.0100	mg/L	0.200	0.000444	92	80-120			
Lead	0.192		0.0100	mg/L	0.200	-0.00144	96	80-120			
Nickel	0.197		0.0100	mg/L	0.200	-4.68E-5	98	80-120			
Silver	0.193		0.0100	mg/L	0.200	0.000955	96	80-120			
Vanadium	0.180		0.0100	mg/L	0.200	-6.91E-5	90	80-120			
Zinc	0.200		0.0100	mg/L	0.200	0.00151	99	80-120			

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FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
J-01	Result is estimated due to positive results in the associated method blank.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill Surface Waters
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 Fax:	Reporting Contact: Gail Hay
Sampler(s) Name, Affiliation (Print): Gary Simcoy / STME, Inc.	Billing Contact: Gail Hay
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C411822

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	4103-SW1	10/2/14	0805	G	SW	4	X	X									
	4103-SW2	10/1/14	1630	G	SW	4	X	X									
	4103-SW3	10/2/14	0735	G	SW	4	X	X									
	4103-SW4	10/2/14	0650	G	SW	4	X	X									
	4103-SW5	10/1/14	1600	G	SW	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
			10/2/14 0830		10/2/14 1250
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.6		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, October 23, 2014

City of Greensboro (CI034)

Attn: Gail Hay

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill App IIs
ENCO Workorder(s): C413246

Dear Gail Hay,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, October 8, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 80.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-MW13 **Lab ID: C413246-01** **Sampled: 10/06/14 09:05** **Received: 10/08/14 11:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/15		10/13/14	11:27	10/15/2014	15:00
EPA 6020A	04/04/15		10/10/14	10:58	10/13/2014	13:12
EPA 7470A	11/03/14		10/14/14	09:58	10/15/2014	14:06
EPA 8081B	10/13/14	11/20/14	10/11/14	12:45	10/15/2014	01:06
EPA 8082A	10/06/15	11/20/14	10/11/14	12:54	10/15/2014	01:06
EPA 8151A	10/13/14	11/19/14	10/10/14	14:07	10/15/2014	20:15
EPA 8260B	10/20/14		10/12/14	13:55	10/13/2014	07:37
EPA 8270D	10/13/14	11/18/14	10/09/14	10:30	10/21/2014	21:15
EPA 9014	10/20/14		10/14/14	12:43	10/15/2014	13:57
SM 4500S2 D-2000	10/13/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-MW14 **Lab ID: C413246-02** **Sampled: 10/06/14 11:20** **Received: 10/08/14 11:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/15		10/13/14	11:27	10/15/2014	15:27
EPA 6020A	04/04/15		10/10/14	10:58	10/13/2014	13:16
EPA 7470A	11/03/14		10/14/14	09:58	10/15/2014	14:09
EPA 8081B	10/13/14	11/20/14	10/11/14	12:45	10/15/2014	10:11
EPA 8082A	10/06/15	11/20/14	10/11/14	12:54	10/15/2014	10:11
EPA 8151A	10/13/14	11/19/14	10/10/14	14:07	10/15/2014	20:41
EPA 8260B	10/20/14		10/12/14	13:55	10/13/2014	08:06
EPA 8270D	10/13/14	11/18/14	10/09/14	10:30	10/21/2014	21:45
EPA 9014	10/20/14		10/14/14	12:43	10/15/2014	13:58
SM 4500S2 D-2000	10/13/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-II1 **Lab ID: C413246-03** **Sampled: 10/06/14 15:05** **Received: 10/08/14 11:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/15		10/13/14	11:27	10/15/2014	15:30
EPA 6020A	04/04/15		10/10/14	10:58	10/13/2014	13:20
EPA 7470A	11/03/14		10/14/14	09:58	10/15/2014	14:11
EPA 8081B	10/13/14	11/20/14	10/11/14	12:45	10/15/2014	10:24
EPA 8082A	10/06/15	11/20/14	10/11/14	12:54	10/15/2014	10:24
EPA 8151A	10/13/14	11/19/14	10/10/14	14:07	10/15/2014	21:07
EPA 8260B	10/20/14		10/12/14	13:55	10/13/2014	08:35
EPA 8270D	10/13/14	11/18/14	10/09/14	10:30	10/21/2014	22:16
EPA 9014	10/20/14		10/14/14	12:43	10/15/2014	14:00
SM 4500S2 D-2000	10/13/14		10/10/14	13:00	10/10/2014	13:24

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Client ID: 4103-II8	Lab ID: C413246-05	Sampled: 10/06/14 13:10	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/15		10/13/14	11:27	10/15/2014	15:33
EPA 6020A	04/04/15		10/10/14	10:58	10/13/2014	13:23
EPA 7470A	11/03/14		10/14/14	09:58	10/15/2014	14:14
EPA 8081B	10/13/14	11/20/14	10/11/14	12:45	10/15/2014	10:37
EPA 8082A	10/06/15	11/20/14	10/11/14	12:54	10/15/2014	10:37
EPA 8151A	10/13/14	11/19/14	10/10/14	14:07	10/15/2014	21:34
EPA 8260B	10/20/14		10/12/14	13:55	10/13/2014	09:05
EPA 8270D	10/13/14	11/18/14	10/09/14	10:30	10/21/2014	22:47
EPA 9014	10/20/14		10/14/14	12:43	10/15/2014	14:02
SM 4500S2 D-2000	10/13/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-II12	Lab ID: C413246-07	Sampled: 10/07/14 17:35	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/15		10/13/14	11:27	10/15/2014	15:36
EPA 6020A	04/05/15		10/10/14	10:58	10/13/2014	13:27
EPA 7470A	11/04/14		10/14/14	09:58	10/15/2014	14:16
EPA 8081B	10/14/14	11/20/14	10/11/14	12:45	10/15/2014	10:51
EPA 8082A	10/07/15	11/20/14	10/11/14	12:54	10/15/2014	10:51
EPA 8151A	10/13/14	11/19/14	10/10/14	14:07	10/15/2014	22:00
EPA 8260B	10/21/14		10/15/14	08:03	10/15/2014	15:57
EPA 8270D	10/14/14	11/18/14	10/09/14	10:30	10/21/2014	23:18
EPA 9014	10/21/14		10/16/14	12:47	10/20/2014	15:36
SM 4500S2 D-2000	10/14/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-TripBlank#1	Lab ID: C413246-11	Sampled: 10/06/14 09:05	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	10/20/14		10/12/14	13:55	10/13/2014	06:38

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-MW13 **Lab ID: C413246-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	88.3	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Vanadium - Total	3.32	J	1	1.40	10.0	25	ug/L	EPA 6010C	

Client ID: 4103-MW14 **Lab ID: C413246-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	18.5	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.102	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.842	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Zinc - Total	7.21	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II1 **Lab ID: C413246-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	0.53	J	1	0.13	1.0	5	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.61	J	1	0.19	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	8.2		1	0.19	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.296	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	446		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene	1.1		1	0.15	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	4.3		1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	4.79	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	1.1	J	1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	58.5		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	14.4		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	26.2	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrahydrofuran	13		1	0.80	1.0	NE	ug/L	EPA 8260B	
Tin - Total	4.80	J	1	2.10	10.0	100	ug/L	EPA 6010C	
Zinc - Total	16.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II8 **Lab ID: C413246-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	142		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.502	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chlorobenzene	2.2	J	1	0.17	1.0	3	ug/L	EPA 8260B	
Chromium - Total	1.71	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.87	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	37.7	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Tetrahydrofuran	9.4		1	0.80	1.0	NE	ug/L	EPA 8260B	
Vanadium - Total	2.91	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	4.60	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II12 **Lab ID: C413246-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	384		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	2.17	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.65	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	6.97	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	3.42	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	5.60	J	1	3.80	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 07:37	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 07:37	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 07:37	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 07:37	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 07:37	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 07:37	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 07:37	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 07:37	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 07:37	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 07:37	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 07:37	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 07:37	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 07:37	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 07:37	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 07:37	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 07:37	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	

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Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 07:37	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 07:37	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 07:37	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 07:37	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 07:37	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 07:37	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 07:37	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 07:37	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 07:37	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 07:37	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 07:37	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 07:37	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*57*	*1*	*50.0*	*115 %*	*53-136*	*4J12002*	*EPA 8260B*	*10/13/14 07:37*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*67-129*	*4J12002*	*EPA 8260B*	*10/13/14 07:37*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*59-134*	*4J12002*	*EPA 8260B*	*10/13/14 07:37*	*MSZ*	

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Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 21:15	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 21:15	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 21:15	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:15	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 21:15	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 21:15	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:15	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 21:15	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 21:15	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 21:15	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 21:15	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 21:15	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 21:15	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 21:15	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 21:15	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 21:15	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 21:15	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 21:15	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	

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Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 21:15	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 21:15	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:15	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 21:15	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:15	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 21:15	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 21:15	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 21:15	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 21:15	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 21:15	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 21:15	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 21:15	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 21:15	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 21:15	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:15	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 21:15	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 21:15	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	

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Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 21:15	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:15	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 21:15	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 21:15	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:15	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:15	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:15	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:15	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 21:15	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*66*	*1*	*100*	*66 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 21:15*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 21:15*	*DFM*	
2-Fluorophenol	*52*	*1*	*100*	*52 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 21:15*	*DFM*	
Nitrobenzene-d5	*33*	*1*	*50.0*	*65 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 21:15*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 21:15*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 21:15*	*DFM*	

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Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/15/14 01:06	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 01:06	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 01:06	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/15/14 01:06	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/15/14 01:06	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/15/14 01:06	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/15/14 01:06	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/15/14 01:06	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/15/14 01:06	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/15/14 01:06	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/15/14 01:06	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/15/14 01:06	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/15/14 01:06	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/15/14 01:06	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.88*	*1*	*1.00*	*88 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/15/14 01:06*	*MWC*	
Decachlorobiphenyl	*0.77*	*1*	*1.00*	*77 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/15/14 01:06*	*MWC*	

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Description: 4103-MW13
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-01
Sampled: 10/06/14 09:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/15/14 01:06	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 01:06	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 01:06	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/15/14 01:06	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 01:06	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 01:06	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.88*	*1*	*1.00*	*88 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/15/14 01:06*	*MWC*	
Decachlorobiphenyl	*0.77*	*1*	*1.00*	*77 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/15/14 01:06*	*MWC*	

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Description:	4103-MW13	**Lab Sample ID:**	C413246-01	**Received:**	10/08/14 11:30
Matrix:	Ground Water	**Sampled:**	10/06/14 09:05	**Work Order:**	C413246
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 14:06	T1D	

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Description: 4103-MW13 | **Lab Sample ID:** C413246-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:12	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 15:00	JDH	
Barium [7440-39-3] ^	**88.3**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 15:00	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 15:00	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 15:00	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 15:00	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 15:00	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 15:00	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 15:00	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 15:00	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 15:00	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:12	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 15:00	JDH	
Vanadium [7440-62-2] ^	**3.32**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 15:00	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 15:00	JDH	

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Description: 4103-MW13
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-01
Sampled: 10/06/14 09:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 13:57	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-MW13
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-01
Sampled: 10/06/14 09:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 20:15	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 20:15	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 20:15	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 20:15	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 20:15	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.00*	*106 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 20:15*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 08:06	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 08:06	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 08:06	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 08:06	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 08:06	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 08:06	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 08:06	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 08:06	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 08:06	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 08:06	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 08:06	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 08:06	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 08:06	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 08:06	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 08:06	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 08:06	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 08:06	MSZ	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 08:06	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 08:06	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 08:06	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 08:06	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 08:06	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 08:06	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 08:06	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 08:06	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 08:06	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 08:06	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 08:06	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*62*	*1*	*50.0*	*124 %*	*53-136*	*4J12002*	*EPA 8260B*	*10/13/14 08:06*	*MSZ*	
Dibromofluoromethane	*59*	*1*	*50.0*	*118 %*	*67-129*	*4J12002*	*EPA 8260B*	*10/13/14 08:06*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*116 %*	*59-134*	*4J12002*	*EPA 8260B*	*10/13/14 08:06*	*MSZ*	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 21:45	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 21:45	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 21:45	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:45	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 21:45	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 21:45	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:45	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 21:45	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 21:45	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 21:45	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 21:45	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 21:45	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 21:45	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 21:45	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 21:45	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 21:45	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 21:45	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 21:45	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 21:45	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 21:45	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:45	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 21:45	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:45	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 21:45	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 21:45	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 21:45	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 21:45	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 21:45	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 21:45	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 21:45	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 21:45	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 21:45	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 21:45	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 21:45	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 21:45	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 21:45	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 21:45	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 21:45	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 21:45	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 21:45	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 21:45	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 21:45	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 21:45	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 21:45	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*35*	*1*	*100*	*35 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 21:45*	*DFM*	
2-Fluorobiphenyl	*31*	*1*	*50.0*	*62 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 21:45*	*DFM*	
2-Fluorophenol	*38*	*1*	*100*	*38 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 21:45*	*DFM*	
Nitrobenzene-d5	*26*	*1*	*50.0*	*52 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 21:45*	*DFM*	
Phenol-d5	*38*	*1*	*100*	*38 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 21:45*	*DFM*	
Terphenyl-d14	*32*	*1*	*50.0*	*64 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 21:45*	*DFM*	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/15/14 10:11	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:11	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:11	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/15/14 10:11	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/15/14 10:11	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/15/14 10:11	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/15/14 10:11	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/15/14 10:11	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/15/14 10:11	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/15/14 10:11	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/15/14 10:11	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/15/14 10:11	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/15/14 10:11	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/15/14 10:11	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.93*	*1*	*1.00*	*93 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/15/14 10:11*	*MWC*	
Decachlorobiphenyl	*0.81*	*1*	*1.00*	*81 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/15/14 10:11*	*MWC*	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/15/14 10:11	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:11	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:11	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/15/14 10:11	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:11	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:11	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.93*	*1*	*1.00*	*93 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/15/14 10:11*	*MWC*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/15/14 10:11*	*MWC*	

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Description:	4103-MW14	**Lab Sample ID:**	C413246-02	**Received:**	10/08/14 11:30
Matrix:	Ground Water	**Sampled:**	10/06/14 11:20	**Work Order:**	C413246
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 14:09	T1D	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:16	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 15:27	JDH	
Barium [7440-39-3] ^	**18.5**	J	ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 15:27	JDH	
Beryllium [7440-41-7] ^	**0.102**	J	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 15:27	JDH	
Cadmium [7440-43-9] ^	**0.842**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 15:27	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 15:27	JDH	
Cobalt [7440-48-4] ^	1.10	U	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 15:27	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 15:27	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 15:27	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 15:27	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:16	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 15:27	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:16	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 15:27	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 15:27	JDH	
Zinc [7440-66-6] ^	**7.21**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 15:27	JDH	

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Description: 4103-MW14
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-02
Sampled: 10/06/14 11:20
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 13:58	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-MW14 | **Lab Sample ID:** C413246-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 20:41	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 20:41	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 20:41	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 20:41	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 20:41	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*83 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 20:41*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 08:35	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,1-Dichloroethane [75-34-3] ^	**0.53**	J	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 08:35	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	**0.61**	J	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	**8.2**		ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 08:35	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 08:35	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 08:35	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 08:35	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 08:35	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 08:35	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 08:35	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 08:35	MSZ	
Benzene [71-43-2] ^	**1.1**		ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 08:35	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 08:35	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 08:35	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Chlorobenzene [108-90-7] ^	**4.3**		ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 08:35	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 08:35	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**1.1**	J	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 08:35	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 08:35	MSZ	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 08:35	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 08:35	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 08:35	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 08:35	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 08:35	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Tetrahydrofuran [109-99-9] ^	**13**		ug/L	1	0.80	1.0		EPA 8260B	10/13/14 08:35	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 08:35	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 08:35	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 08:35	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 08:35	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 08:35	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*61*	*1*	*50.0*	*122 %*	*53-136*	*4J12002*	*EPA 8260B*	*10/13/14 08:35*	*MSZ*	
Dibromofluoromethane	*60*	*1*	*50.0*	*121 %*	*67-129*	*4J12002*	*EPA 8260B*	*10/13/14 08:35*	*MSZ*	
Toluene-d8	*60*	*1*	*50.0*	*120 %*	*59-134*	*4J12002*	*EPA 8260B*	*10/13/14 08:35*	*MSZ*	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 22:16	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 22:16	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 22:16	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:16	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 22:16	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 22:16	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:16	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 22:16	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 22:16	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 22:16	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 22:16	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 22:16	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 22:16	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 22:16	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 22:16	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 22:16	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 22:16	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 22:16	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 22:16	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 22:16	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:16	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 22:16	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:16	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 22:16	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 22:16	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 22:16	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 22:16	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 22:16	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 22:16	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 22:16	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 22:16	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 22:16	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:16	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 22:16	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 22:16	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 22:16	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:16	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 22:16	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 22:16	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:16	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:16	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:16	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:16	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 22:16	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 22:16*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*73 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 22:16*	*DFM*	
2-Fluorophenol	*51*	*1*	*100*	*51 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 22:16*	*DFM*	
Nitrobenzene-d5	*32*	*1*	*50.0*	*64 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 22:16*	*DFM*	
Phenol-d5	*44*	*1*	*100*	*44 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 22:16*	*DFM*	
Terphenyl-d14	*41*	*1*	*50.0*	*82 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 22:16*	*DFM*	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/15/14 10:24	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:24	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:24	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/15/14 10:24	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/15/14 10:24	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/15/14 10:24	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/15/14 10:24	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/15/14 10:24	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/15/14 10:24	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/15/14 10:24	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/15/14 10:24	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/15/14 10:24	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/15/14 10:24	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/15/14 10:24	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.62*	*1*	*1.00*	*62 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/15/14 10:24*	*MWC*	
Decachlorobiphenyl	*0.86*	*1*	*1.00*	*86 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/15/14 10:24*	*MWC*	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-03
Sampled: 10/06/14 15:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/15/14 10:24	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:24	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:24	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/15/14 10:24	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:24	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:24	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.66*	*1*	*1.00*	*66 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/15/14 10:24*	*MWC*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/15/14 10:24*	*MWC*	

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Description:	4103-II1	**Lab Sample ID:**	C413246-03	**Received:**	10/08/14 11:30
Matrix:	Ground Water	**Sampled:**	10/06/14 15:05	**Work Order:**	C413246
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 14:11	T1D	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.296**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:20	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 15:30	JDH	
Barium [7440-39-3] ^	**446**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 15:30	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 15:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 15:30	JDH	
Chromium [7440-47-3] ^	**4.79**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 15:30	JDH	
Cobalt [7440-48-4] ^	**58.5**		ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 15:30	JDH	
Copper [7440-50-8] ^	**14.4**		ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 15:30	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 15:30	JDH	
Nickel [7440-02-0] ^	**26.2**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 15:30	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:20	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 15:30	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:20	VLO	
Tin [7440-31-5] ^	**4.80**	J	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 15:30	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 15:30	JDH	
Zinc [7440-66-6] ^	**16.5**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 15:30	JDH	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-03
Sampled: 10/06/14 15:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 14:00	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-II1 | **Lab Sample ID:** C413246-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 15:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 21:07	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 21:07	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 21:07	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 21:07	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 21:07	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*8.5*	*1*	*2.02*	*422 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 21:07*	*RC*	*QM-14, QS-03*

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 09:05	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 09:05	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 09:05	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 09:05	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 09:05	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 09:05	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 09:05	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 09:05	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 09:05	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 09:05	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 09:05	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 09:05	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 09:05	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Chlorobenzene [108-90-7] ^	**2.2**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 09:05	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 09:05	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 09:05	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 09:05	MSZ	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 09:05	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 09:05	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 09:05	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 09:05	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 09:05	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Tetrahydrofuran [109-99-9] ^	**9.4**		ug/L	1	0.80	1.0		EPA 8260B	10/13/14 09:05	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 09:05	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 09:05	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 09:05	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 09:05	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 09:05	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*62*	*1*	*50.0*	*125 %*	*53-136*	*4J12002*	*EPA 8260B*	*10/13/14 09:05*	*MSZ*	
Dibromofluoromethane	*54*	*1*	*50.0*	*109 %*	*67-129*	*4J12002*	*EPA 8260B*	*10/13/14 09:05*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*115 %*	*59-134*	*4J12002*	*EPA 8260B*	*10/13/14 09:05*	*MSZ*	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 22:47	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 22:47	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 22:47	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:47	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 22:47	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 22:47	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:47	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 22:47	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 22:47	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 22:47	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 22:47	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 22:47	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 22:47	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 22:47	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 22:47	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 22:47	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 22:47	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 22:47	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 22:47	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 22:47	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:47	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 22:47	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:47	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 22:47	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 22:47	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 22:47	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 22:47	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 22:47	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 22:47	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 22:47	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 22:47	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 22:47	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 22:47	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 22:47	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 22:47	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 22:47	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 22:47	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 22:47	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 22:47	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 22:47	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 22:47	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 22:47	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 22:47	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 22:47	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*59*	*1*	*100*	*59 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 22:47*	*DFM*	
2-Fluorobiphenyl	*31*	*1*	*50.0*	*63 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 22:47*	*DFM*	
2-Fluorophenol	*48*	*1*	*100*	*48 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 22:47*	*DFM*	
Nitrobenzene-d5	*27*	*1*	*50.0*	*54 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 22:47*	*DFM*	
Phenol-d5	*40*	*1*	*100*	*40 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 22:47*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*72 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 22:47*	*DFM*	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/15/14 10:37	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:37	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:37	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/15/14 10:37	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/15/14 10:37	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/15/14 10:37	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/15/14 10:37	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/15/14 10:37	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/15/14 10:37	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/15/14 10:37	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/15/14 10:37	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/15/14 10:37	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/15/14 10:37	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/15/14 10:37	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.75*	*1*	*1.00*	*75 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/15/14 10:37*	*MWC*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/15/14 10:37*	*MWC*	

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Description: 4103-II8
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-05
Sampled: 10/06/14 13:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/15/14 10:37	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:37	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:37	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/15/14 10:37	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:37	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:37	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.77*	*1*	*1.00*	*77 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/15/14 10:37*	*MWC*	
Decachlorobiphenyl	*0.94*	*1*	*1.00*	*94 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/15/14 10:37*	*MWC*	

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Description: 4103-II8
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-05
Sampled: 10/06/14 13:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 14:14	T1D	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:23	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 15:33	JDH	
Barium [7440-39-3] ^	**142**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 15:33	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 15:33	JDH	
Cadmium [7440-43-9] ^	**0.502**	J	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 15:33	JDH	
Chromium [7440-47-3] ^	**1.71**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 15:33	JDH	
Cobalt [7440-48-4] ^	**1.87**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 15:33	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 15:33	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 15:33	JDH	
Nickel [7440-02-0] ^	**37.7**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 15:33	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:23	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 15:33	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:23	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 15:33	JDH	
Vanadium [7440-62-2] ^	**2.91**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 15:33	JDH	
Zinc [7440-66-6] ^	**4.60**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 15:33	JDH	

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Description: 4103-II8
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-05
Sampled: 10/06/14 13:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 14:02	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-II8 | **Lab Sample ID:** C413246-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 13:10 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 21:34	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 21:34	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 21:34	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 21:34	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 21:34	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.1*	*1*	*2.02*	*103 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 21:34*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/15/14 15:57	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/15/14 15:57	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/15/14 15:57	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/15/14 15:57	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/15/14 15:57	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/15/14 15:57	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/15/14 15:57	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/15/14 15:57	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/15/14 15:57	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/15/14 15:57	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/15/14 15:57	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/15/14 15:57	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/15/14 15:57	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/14 15:57	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/15/14 15:57	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/15/14 15:57	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/15/14 15:57	MSZ	

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/15/14 15:57	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/15/14 15:57	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/15/14 15:57	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/15/14 15:57	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/15/14 15:57	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/15/14 15:57	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/15/14 15:57	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/15/14 15:57	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/15/14 15:57	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/15/14 15:57	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/15/14 15:57	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*61*	*1*	*50.0*	*121 %*	*53-136*	*4J15035*	*EPA 8260B*	*10/15/14 15:57*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*67-129*	*4J15035*	*EPA 8260B*	*10/15/14 15:57*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*59-134*	*4J15035*	*EPA 8260B*	*10/15/14 15:57*	*MSZ*	

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 23:18	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 23:18	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 23:18	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 23:18	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 23:18	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 23:18	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 23:18	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 23:18	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 23:18	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 23:18	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 23:18	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 23:18	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 23:18	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 23:18	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 23:18	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 23:18	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 23:18	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 23:18	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 23:18	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 23:18	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 23:18	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 23:18	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 23:18	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 23:18	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 23:18	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 23:18	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 23:18	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 23:18	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 23:18	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 23:18	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 23:18	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 23:18	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 23:18	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 23:18	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 23:18	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 23:18	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 23:18	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 23:18	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 23:18	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 23:18	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 23:18	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 23:18	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 23:18	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 23:18	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*53*	*1*	*100*	*53 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 23:18*	*DFM*	
2-Fluorobiphenyl	*29*	*1*	*50.0*	*57 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 23:18*	*DFM*	
2-Fluorophenol	*46*	*1*	*100*	*46 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 23:18*	*DFM*	
Nitrobenzene-d5	*25*	*1*	*50.0*	*49 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 23:18*	*DFM*	
Phenol-d5	*38*	*1*	*100*	*38 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 23:18*	*DFM*	
Terphenyl-d14	*33*	*1*	*50.0*	*66 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 23:18*	*DFM*	

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Description: 4103-II12
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-07
Sampled: 10/07/14 17:35
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/15/14 10:51	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:51	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/15/14 10:51	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/15/14 10:51	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/15/14 10:51	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/15/14 10:51	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/15/14 10:51	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/15/14 10:51	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/15/14 10:51	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/15/14 10:51	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/15/14 10:51	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/15/14 10:51	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050		EPA 8081B	10/15/14 10:51	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/15/14 10:51	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.83*	*1*	*1.00*	*83 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/15/14 10:51*	*MWC*	
Decachlorobiphenyl	*0.82*	*1*	*1.00*	*82 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/15/14 10:51*	*MWC*	

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/15/14 10:51	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:51	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:51	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/15/14 10:51	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/15/14 10:51	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/15/14 10:51	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.83*	*1*	*1.00*	*83 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/15/14 10:51*	*MWC*	
Decachlorobiphenyl	*0.82*	*1*	*1.00*	*82 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/15/14 10:51*	*MWC*	

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Description:	4103-II12	**Lab Sample ID:**	C413246-07	**Received:**	10/08/14 11:30
Matrix:	Ground Water	**Sampled:**	10/07/14 17:35	**Work Order:**	C413246
Project:	White Street Landfill App IIs	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 14:16	T1D	

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Description: 4103-II12 | **Lab Sample ID:** C413246-07 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 17:35 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 13:27	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 15:36	JDH	
Barium [7440-39-3] ^	**384**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 15:36	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 15:36	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 15:36	JDH	
Chromium [7440-47-3] ^	**2.17**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 15:36	JDH	
Cobalt [7440-48-4] ^	**1.65**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 15:36	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 15:36	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 15:36	JDH	
Nickel [7440-02-0] ^	**6.97**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 15:36	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 13:27	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 15:36	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 13:27	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 15:36	JDH	
Vanadium [7440-62-2] ^	**3.42**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 15:36	JDH	
Zinc [7440-66-6] ^	**5.60**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 15:36	JDH	

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Description: 4103-II12
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-07
Sampled: 10/07/14 17:35
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/20/14 15:36	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-II12
Matrix: Ground Water
Project: White Street Landfill App IIs

Lab Sample ID: C413246-07
Sampled: 10/07/14 17:35
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C413246

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 22:00	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 22:00	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 22:00	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 22:00	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 22:00	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.3*	*1*	*2.00*	*66 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 22:00*	*RC*	*QM-14, QS-05*

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-TripBlank#1 | **Lab Sample ID:** C413246-11 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/13/14 06:38	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/13/14 06:38	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/13/14 06:38	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/13/14 06:38	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/13/14 06:38	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/13/14 06:38	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/13/14 06:38	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/13/14 06:38	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/13/14 06:38	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/13/14 06:38	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/13/14 06:38	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/13/14 06:38	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/13/14 06:38	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 06:38	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/13/14 06:38	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/13/14 06:38	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/13/14 06:38	MSZ	

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Description: 4103-TripBlank#1 | **Lab Sample ID:** C413246-11 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 09:05 | **Work Order:** C413246

Project: White Street Landfill App IIs | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/13/14 06:38	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/13/14 06:38	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/13/14 06:38	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/13/14 06:38	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/13/14 06:38	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0		EPA 8260B	10/13/14 06:38	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/13/14 06:38	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/13/14 06:38	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/13/14 06:38	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/13/14 06:38	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/13/14 06:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*119 %*	*53-136*	*4J12002*	*EPA 8260B*	*10/13/14 06:38*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*67-129*	*4J12002*	*EPA 8260B*	*10/13/14 06:38*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*109 %*	*59-134*	*4J12002*	*EPA 8260B*	*10/13/14 06:38*	*MSZ*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J12002 - EPA 5030B_MS

Blank (4J12002-BLK1) Prepared: 10/12/2014 15:37 Analyzed: 10/13/2014 03:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J12002 - EPA 5030B_MS

Blank (4J12002-BLK1) Continued Prepared: 10/12/2014 15:37 Analyzed: 10/13/2014 03:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*117*	*53-136*			
Surrogate: Dibromofluoromethane	*54*			*ug/L*	*50.0*		*109*	*67-129*			
Surrogate: Toluene-d8	*61*			*ug/L*	*50.0*		*121*	*59-134*			

LCS (4J12002-BS1) Prepared: 10/12/2014 08:37 Analyzed: 10/13/2014 04:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		99	75-133			
Benzene	18		1.0	ug/L	20.0		88	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	19		1.0	ug/L	20.0		97	74-119			

Matrix Spike (4J12002-MS1) Prepared: 10/12/2014 08:37 Analyzed: 10/13/2014 04:40

Source: C413325-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	88	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	86	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119			

Matrix Spike Dup (4J12002-MSD1) Prepared: 10/12/2014 08:37 Analyzed: 10/13/2014 05:10

Source: C413325-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	94	75-133	14	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	87	81-134	0.3	17	
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	87	83-117	11	16	
Toluene	16		1.0	ug/L	20.0	0.14 U	79	71-118	8	17	
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	90	74-119	7	22	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J12002 - EPA 5030B_MS

Batch 4J15035 - EPA 5030B_MS

Blank (4J15035-BLK1) Prepared: 10/15/2014 08:03 Analyzed: 10/15/2014 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J15035 - EPA 5030B_MS

Blank (4J15035-BLK1) Continued Prepared: 10/15/2014 08:03 Analyzed: 10/15/2014 12:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*61*			*ug/L*	*50.0*		*121*	*53-136*			
Surrogate: Dibromofluoromethane	*58*			*ug/L*	*50.0*		*116*	*67-129*			
Surrogate: Toluene-d8	*60*			*ug/L*	*50.0*		*119*	*59-134*			

LCS (4J15035-BS1) Prepared: 10/15/2014 08:03 Analyzed: 10/15/2014 13:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		121	75-133			
Benzene	20		1.0	ug/L	20.0		99	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	18		1.0	ug/L	20.0		92	74-119			

Matrix Spike (4J15035-MS1) Prepared: 10/15/2014 08:03 Analyzed: 10/15/2014 13:30

Source: C413536-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	110	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	83-117			
Toluene	17		1.0	ug/L	20.0	0.14 U	84	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119			

Matrix Spike Dup (4J15035-MSD1) Prepared: 10/15/2014 08:03 Analyzed: 10/15/2014 14:00

Source: C413536-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133	1	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	93	81-134	7	17	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J15035 - EPA 5030B_MS

Matrix Spike Dup (4J15035-MSD1) Continued Prepared: 10/15/2014 08:03 Analyzed: 10/15/2014 14:00

Source: C413536-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	83-117	12	16	
Toluene	19		1.0	ug/L	20.0	0.14 U	94	71-118	12	17	
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	105	74-119	9	22	

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*83*			*ug/L*	*100*		*83*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*47*			*ug/L*	*50.0*		*94*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*56*			*ug/L*	*50.0*		*111*	*10-188*			

LCS (4J08042-BS1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0		75	40-109			
4-Chloro-3-methylphenol	42		10	ug/L	50.0		84	58-121			
4-Nitrophenol	34		10	ug/L	50.0		67	33-105			
Acenaphthene	44		10	ug/L	50.0		88	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0		82	48-126			
Phenol	29		10	ug/L	50.0		57	19-78			
Pyrene	48		10	ug/L	50.0		96	44-137			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*100*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*54*			*ug/L*	*100*		*54*	*10-88*			
Surrogate: Terphenyl-d14	*50*			*ug/L*	*50.0*		*100*	*10-188*			

Matrix Spike (4J08042-MS1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 09:49

Source: C413192-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	11		10	ug/L	50.0	1.2 U	22	40-109			QM-07

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Matrix Spike (4J08042-MS1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 09:49

Source: C413192-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Chloro-3-methylphenol	18		10	ug/L	50.0	1.5 U	35	58-121			QM-07
4-Nitrophenol	4.3	J	10	ug/L	50.0	2.0 U	9	33-105			QM-07
Acenaphthene	44		10	ug/L	50.0	1.4 U	88	39-125			
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0	1.5 U	91	48-126			
Phenol	6.5	J	10	ug/L	50.0	1.4 U	13	19-78			QM-07
Pyrene	48		10	ug/L	50.0	2.1 U	96	44-137			
Surrogate: 2,4,6-Tribromophenol	*26*			*ug/L*	*100*		*26*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*90*	*10-149*			
Surrogate: 2-Fluorophenol	*13*			*ug/L*	*100*		*13*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: Phenol-d5	*12*			*ug/L*	*100*		*12*	*10-88*			
Surrogate: Terphenyl-d14	*48*			*ug/L*	*50.0*		*97*	*10-188*			

Matrix Spike Dup (4J08042-MSD1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 10:20

Source: C413192-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	80	40-109	112	22	QM-11
4-Chloro-3-methylphenol	41		10	ug/L	50.0	1.5 U	82	58-121	80	22	QM-11
4-Nitrophenol	22		10	ug/L	50.0	2.0 U	45	33-105	135	27	QM-11
Acenaphthene	47		10	ug/L	50.0	1.4 U	93	39-125	6	25	
N-Nitroso-di-n-propylamine	46		10	ug/L	50.0	1.5 U	92	48-126	2	23	
Phenol	22		10	ug/L	50.0	1.4 U	44	19-78	109	18	QM-11
Pyrene	50		10	ug/L	50.0	2.1 U	99	44-137	4	24	
Surrogate: 2,4,6-Tribromophenol	*91*			*ug/L*	*100*		*91*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*90*	*10-149*			
Surrogate: 2-Fluorophenol	*50*			*ug/L*	*100*		*50*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: Phenol-d5	*40*			*ug/L*	*100*		*40*	*10-88*			
Surrogate: Terphenyl-d14	*49*			*ug/L*	*50.0*		*98*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 4J11002 - EPA 3510C

Blank (4J11002-BLK1) Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 20:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 4J11002 - EPA 3510C

Blank (4J11002-BLK1) Continued Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 20:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*102*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.70*			*ug/L*	*1.00*		*70*	*37-149*			

LCS (4J11002-BS1) Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 21:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.92		0.050	ug/L	1.00		92	37-139			
Dieldrin	0.90		0.050	ug/L	1.00		90	46-132			
Endrin	0.91		0.050	ug/L	1.00		91	43-133			
Surrogate: 2,4,5,6-TCMX	*0.88*			*ug/L*	*1.00*		*88*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.65*			*ug/L*	*1.00*		*65*	*37-149*			

Matrix Spike (4J11002-MS1) Prepared: 10/11/2014 12:45 Analyzed: 10/15/2014 09:46

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.95		0.050	ug/L	1.00	0.049 U	95	37-139			
Dieldrin	0.94		0.050	ug/L	1.00	0.045 U	94	46-132			
Endrin	0.94		0.050	ug/L	1.00	0.041 U	94	43-133			
Surrogate: 2,4,5,6-TCMX	*0.89*			*ug/L*	*1.00*		*89*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.51*			*ug/L*	*1.00*		*51*	*37-149*			

Matrix Spike Dup (4J11002-MSD1) Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 21:33

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.88		0.050	ug/L	1.00	0.049 U	88	37-139	8	26	
Dieldrin	0.92		0.050	ug/L	1.00	0.045 U	92	46-132	2	27	
Endrin	0.92		0.050	ug/L	1.00	0.041 U	92	43-133	2	26	
Surrogate: 2,4,5,6-TCMX	*0.79*			*ug/L*	*1.00*		*79*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.90*			*ug/L*	*1.00*		*90*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 4J11003 - EPA 3510C

Blank (4J11003-BLK1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 20:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*102*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.70*			*ug/L*	*1.00*		*70*	*42-159*			

LCS (4J11003-BS1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 21:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0		110	66-149			
PCB-1260	11		0.50	ug/L	10.0		107	64-150			
Surrogate: 2,4,5,6-TCMX	*0.88*			*ug/L*	*1.00*		*88*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.63*			*ug/L*	*1.00*		*63*	*42-159*			

Matrix Spike (4J11003-MS1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 22:00

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0	0.43 U	104	66-149			
PCB-1260	10		0.50	ug/L	10.0	0.45 U	100	64-150			
Surrogate: 2,4,5,6-TCMX	*0.83*			*ug/L*	*1.00*		*83*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.52*			*ug/L*	*1.00*		*52*	*42-159*			

Matrix Spike Dup (4J11003-MSD1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 22:13

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0	0.43 U	109	66-149	5	21	
PCB-1260	11		0.50	ug/L	10.0	0.45 U	111	64-150	11	18	
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.60*			*ug/L*	*1.00*		*60*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J14015 - EPA 7470A

Blank (4J14015-BLK1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (4J14015-BS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 14:36

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J14015 - EPA 7470A

LCS (4J14015-BS1) Continued Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.54		0.200	ug/L	5.00		111	80-120			

Matrix Spike (4J14015-MS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:23

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.11		0.200	ug/L	5.00	0.170 U	122	75-125			

Matrix Spike Dup (4J14015-MSD1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:29

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.25		0.200	ug/L	5.00	0.170 U	125	75-125	2	25	

Post Spike (4J14015-PS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:32

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.42		0.200	ug/L	5.00	0.0500	107	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J10015 - EPA 3005A

Blank (4J10015-BLK1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 11:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4J10015-BS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200		102	80-120			
Selenium	213		3.00	ug/L	200		106	80-120			
Thallium	222		1.00	ug/L	200		111	80-120			

Matrix Spike (4J10015-MS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:16

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	199		2.00	ug/L	200	0.316	99	75-125			
Selenium	208		3.00	ug/L	200	0.910 U	104	75-125			
Thallium	207		1.00	ug/L	200	0.110 U	104	75-125			

Matrix Spike Dup (4J10015-MSD1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:19

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J10015 - EPA 3005A

Matrix Spike Dup (4J10015-MSD1) Continued Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:19

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	0.316	98	75-125	1	20	
Selenium	209		3.00	ug/L	200	0.910 U	105	75-125	0.7	20	
Thallium	206		1.00	ug/L	200	0.110 U	103	75-125	0.6	20	

Post Spike (4J10015-PS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:23

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	0.316	98	80-120			
Selenium	201		3.00	ug/L	200	0.287	100	80-120			
Thallium	200		1.00	ug/L	200	0.0233	100	80-120			

Batch 4J13020 - EPA 3005A

Blank (4J13020-BLK1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 13:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	**2.42**	**J**	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (4J13020-BS1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	214		10.0	ug/L	200		107	80-120			
Barium	222		10.0	ug/L	200		111	80-120			
Beryllium	21.3		1.00	ug/L	20.0		107	80-120			
Cadmium	22.4		1.00	ug/L	20.0		112	80-120			
Chromium	211		10.0	ug/L	200		105	80-120			
Cobalt	221		10.0	ug/L	200		110	80-120			
Copper	207		10.0	ug/L	200		104	80-120			
Lead	219		10.0	ug/L	200		110	80-120			
Nickel	226		10.0	ug/L	200		113	80-120			
Silver	207	B	10.0	ug/L	200		104	80-120			
Tin	217		10.0	ug/L	200		109	80-120			
Vanadium	205		10.0	ug/L	200		102	80-120			
Zinc	235		10.0	ug/L	200		117	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J13020 - EPA 3005A

Matrix Spike (4J13020-MS1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:00

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	205		10.0	ug/L	200	5.40 U	103	75-125			
Barium	217		10.0	ug/L	200	2.43	107	75-125			
Beryllium	20.7		1.00	ug/L	20.0	0.399	101	75-125			
Cadmium	22.2		1.00	ug/L	20.0	0.488	108	75-125			
Chromium	201		10.0	ug/L	200	1.40 U	101	75-125			
Cobalt	223		10.0	ug/L	200	9.68	107	75-125			
Copper	197		10.0	ug/L	200	1.60 U	99	75-125			
Lead	213		10.0	ug/L	200	2.10 U	106	75-125			
Nickel	220		10.0	ug/L	200	1.80 U	110	75-125			
Silver	196	B	10.0	ug/L	200	1.90 U	98	75-125			
Tin	210		10.0	ug/L	200	2.10 U	105	75-125			
Vanadium	195		10.0	ug/L	200	1.40 U	98	75-125			
Zinc	235		10.0	ug/L	200	12.4	111	75-125			

Matrix Spike Dup (4J13020-MSD1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:02

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	206		10.0	ug/L	200	5.40 U	103	75-125	0.7	20	
Barium	216		10.0	ug/L	200	2.43	107	75-125	0.6	20	
Beryllium	21.7		1.00	ug/L	20.0	0.399	107	75-125	5	20	
Cadmium	21.8		1.00	ug/L	20.0	0.488	107	75-125	2	20	
Chromium	211		10.0	ug/L	200	1.40 U	106	75-125	5	20	
Cobalt	222		10.0	ug/L	200	9.68	106	75-125	0.5	20	
Copper	206		10.0	ug/L	200	1.60 U	103	75-125	5	20	
Lead	211		10.0	ug/L	200	2.10 U	105	75-125	0.9	20	
Nickel	218		10.0	ug/L	200	1.80 U	109	75-125	0.7	20	
Silver	205	B	10.0	ug/L	200	1.90 U	102	75-125	4	20	
Tin	206		10.0	ug/L	200	2.10 U	103	75-125	2	20	
Vanadium	205		10.0	ug/L	200	1.40 U	102	75-125	5	20	
Zinc	233		10.0	ug/L	200	12.4	110	75-125	1	20	

Post Spike (4J13020-PS1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:05

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.198		0.0100	mg/L	0.200	-0.00584	99	80-120			
Barium	0.201		0.0100	mg/L	0.200	0.00243	99	80-120			
Beryllium	0.0199		0.00100	mg/L	0.0200	0.000399	98	80-120			
Cadmium	0.0205		0.00100	mg/L	0.0200	0.000488	100	80-120			
Chromium	0.194		0.0100	mg/L	0.200	0.000691	97	80-120			
Cobalt	0.206		0.0100	mg/L	0.200	0.00968	98	80-120			
Copper	0.190		0.0100	mg/L	0.200	4.53E-5	95	80-120			
Lead	0.196		0.0100	mg/L	0.200	0.000829	97	80-120			
Nickel	0.202		0.0100	mg/L	0.200	0.00134	101	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J13020 - EPA 3005A

Post Spike (4J13020-PS1) Continued Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:05

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	0.197	B	0.0100	mg/L	0.200	0.000771	98	80-120			
Tin	0.192		0.0100	mg/L	0.200	0.000822	96	80-120			
Vanadium	0.188		0.0100	mg/L	0.200	0.000265	94	80-120			
Zinc	0.217		0.0100	mg/L	0.200	0.0124	102	80-120			

Classical Chemistry Parameters - Quality Control

Batch 4J10023 - NO PREP

Blank (4J10023-BLK1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (4J10023-BS1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.39		0.10	mg/L	0.401		96	80-120			

Duplicate (4J10023-DUP1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.036	J	0.10	mg/L		0.040			11	25	

Matrix Spike (4J10023-MS1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.089	J	0.10	mg/L	0.401	0.010 U	22	80-120			QM-05

Matrix Spike Dup (4J10023-MSD1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.083	J	0.10	mg/L	0.401	0.010 U	21	80-120	8	25	QM-05

Batch 4J14006 - Same

Blank (4J14006-BLK1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (4J14006-BS1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:25

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J14006 - Same

LCS (4J14006-BS1) Continued Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		98	85-115			

Matrix Spike (4J14006-MS1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:30

Source: C315249-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	93	85-115			

Matrix Spike Dup (4J14006-MSD1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:32

Source: C315249-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	95	85-115	3	20	

Batch 4J16009 - Same

Blank (4J16009-BLK1) Prepared: 10/16/2014 09:36 Analyzed: 10/20/2014 15:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (4J16009-BS1) Prepared: 10/16/2014 09:36 Analyzed: 10/20/2014 15:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		97	85-115			

Matrix Spike (4J16009-MS1) Prepared: 10/16/2014 12:47 Analyzed: 10/20/2014 15:38

Source: C413246-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	93	85-115			

Matrix Spike Dup (4J16009-MSD1) Prepared: 10/16/2014 12:47 Analyzed: 10/20/2014 15:39

Source: C413246-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	94	85-115	1	20	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J10022 - EPA 3510C

Blank (4J10022-BLK1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J10022 - EPA 3510C

Blank (4J10022-BLK1) Continued Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*99*	*68-139*			

LCS (4J10022-BS1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		98	70-114			
2,4-D	2.0		0.50	ug/L	2.00		101	37-129			
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*115*	*68-139*			

Matrix Spike (4J10022-MS1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:27

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00	0.44 U	89	70-114			
2,4-D	2.0		0.50	ug/L	2.00	0.27 U	98	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*101*	*68-139*			

Matrix Spike Dup (4J10022-MSD1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:53

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.44 U	97	70-114	9	15	
2,4-D	2.0		0.50	ug/L	2.00	0.27 U	101	37-129	3	33	
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-14	Confirmed matrix effects
QS-03	Surrogate recovery outside acceptance limits
QS-05	Surrogate recovery biased low and outside control limits due to suspected matrix effects, as evidenced by sample behavior during sample preparation (emulsion formation, excessive foaming).
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Page ____ of ____

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill App IIs
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Gail Hay
Sampler(s) Name, Affiliation (Print): Gary Simcox / S&ME, Inc.	Billing Contact: Gail Hay
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C413246 ~~C411816~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2,8151A Appendix 2,8270D Appendix 2	8260B Appendix 2,8260B Extended	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total 9014	Hg	Sulfide SM4500-S D				Sample Comments
	~~Trip Blank#2~~ MW-13	10/6/14	0905	G	GW	9	X	X	X	X	X	X	X				
	4103-Trip Blank#1				GW	2			X								
	~~4103-Trip Blank#2~~ MW-14	10/6/14	1120	G	GW	9	X	X	X	X	X	X	X				
	11-1	10/6/14	1505	G	GW	9	X	X	X	X	X	X	X				
	11-BB	10/7/14	0925	G	GW	9	X	X	X	X	X	X	X				
	11-8	10/6/14	1310	G	GW	9	X	X	X	X	X	X	X				
	11-9	10/6/14	1710	G	GW	9	X	X	X	X	X	X	X				
	11-12	10/7/14	1735	G	GW	9	X	X	X	X	X	X	X				
	SMW-1	10/7/14	1135	G	GW	9	X	X	X	X	X	X	X				
	SMW-3	10/7/14	1340	G	GW	9	X	X	X	X	X	X	X				
	SMW-4	10/7/14	1545	G	GW	9	X	X	X	X	X	X	X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
			10/8/14		10/8/14 11:30
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.9c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

APPENDIX III
NCDENR Environmental Monitoring Reporting Form

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):

S&ME, Inc.

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

Name: Edmund Henriques Phone: 336-288-7180

E-mail: ehenriques@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
White Street Landfill - Phase II	North end of White Street, Greensboro, NC	41-03	.1600	October 1-7, 2014

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) Sentinel Monitoring Wells
☐ 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.

Edmund Q.B. Henriques — Senior Geologist — 336-288-7180

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

Edmund Q.B. Henriques — 1-21-2015 — Affix NC Licensed/Professional Geologist Seal

Signature — Date

NORTH CAROLINA LICENSED SEAL 1216 GEOLOGIST EDMUND Q.B. HENRIQUES

8646 Market Street, Suite 105, Greensboro, NC 27409

Facility Representative Address

S&ME Engineering License # F-0176, S&ME Geology License# C-145

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

Revised 6/2009

APPENDIX IV
CAP Monitoring – Laboratory Analytical Reports and Summary Tables

TABLE VI-1A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	AOC II-2 Wells																					NC SWSL	NCAC 2L
	Sample Locations																						
Well ID	**II-2**	**II-2**	**II-2**	**II-2**	**II-2**	**II-2**	**II-2**	**II-2**	**II-2**	**II-2B**	**II-2B**	**II-2B**	**SMW-1**	**SMW-1**	**SMW-1**	**SMW-1**	**SMW-1**	**SMW-1**	**SMW-1**	**SMW-1**	**SMW-1**		**Std.**
Date Collected	4/1/10	10/6/10	5/10/11	10/12/11	10/31/12	4/30/13	4/30/13	4/24/14	10/3/14	1/14/10	4/29/10	8/3/10	8/2/10	10/11/10	10/7/11	4/19/12	10/25/12	5/3/13	9/17/13	4/24/14	10/7/14		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	**16**	**17**	**16**	**12**	**11**	**14**	**11**	**10**	**8.4**	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	6
1,1-Dichloroethene	**0.45 J**	**0.49J**	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichloroethane	ND	ND	ND	ND	ND	**0.40 J**	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	70
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	**0.61 J**	**0.54 J**	**0.87 J**	ND	**0.94 J**	**1.2**	**1.5**	**2.0**	**1.3**	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	ND	**5.2 J**	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	**1.5 J**	ND	ND	ND	ND	ND	ND	ND	100	6,000
Benzene	**1.2**	**0.67 J**	ND	ND	ND	ND	ND	ND	ND	**1.2**	**1.1**	**0.98J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	**0.62 J**	**0.74 J**	**0.78 J**	**0.99 J**	**0.74 J**	**0.88 J**	**0.89 J**	**1.0 J**	**0.72 J**	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	**0.57 J**	ND	ND	ND	ND	**0.47 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	**0.40 J**	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	**20**	**23**	**21**	**21**	**23**	**29**	**26**	**26**	**21**	**17**	**16**	**15**	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	70
Tetrachloroethene	**4.2**	**3.6**	**2.9**	ND	**2.7**	**2.4**	**2.1**	**2.7**	**1.3**	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	**4.1**	**3.6**	**3.3**	ND	**2.9**	**3.2**	**2.4**	**2.5**	**1.2**	**2.5**	**2.5**	**2.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran			ND	ND	**10**	ND	ND	**2.7**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NS
Trichlorofluoromethane	**2.7**	**2.3**	**1.2**	ND	**0.88 J**	**0.73 J**	**0.48 J**	**0.55 J**	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	**4.8**	**5.4**	**5.1**	**3.5**	**2.2**	**5.6**	**3.6**	**4.6**	**2.6**	**4**	**3.5**	**3.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards
NA = Parameter not analyzed during the specified event

TABLE VI-1B
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	AOC II-6 Wells																		NC SWSL	NCAC 2L Std.
	Sample Locations																			
Well ID	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	II-6	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4	SMW-4		
Date Collected	4/1/10	10/6/10	5/9/11	10/10/11	4/19/12	10/26/12	4/30/13	4/30/13	4/23/14	10/2/14	8/2/10	10/11/10	4/19/12	10/25/12	5/3/13	9/17/13	4/24/14	10/7/14		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	**0.43 J**	**0.51 J**	ND	ND	ND	**0.50 J**	ND	**0.50 J**	ND	**0.46 J**	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	**3.4**	**4.7**	ND	**4.0**	**0.51 J**	**4.8**	ND	**3.2**	ND	**3.8**	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	**5.4 J**	ND	ND	ND	ND	**9.8 J**	ND	**7.1 J**	ND	**16 J**	ND	ND	ND	ND	ND	ND	ND	ND	100	6,000
Benzene	**1.6**	**2.2**	ND	**2.4**	ND	**2.3**	ND	**1.6**	ND	**2.0**	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	**4.5**	**7.4**	ND	**6.8**	**0.71 J**	**5.7**	ND	**4.3**	ND	**5.8**	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2.5 J**	NA	NA	NA	NA	NA	NA	NA	ND	10	6
cis 1,2-dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	70
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	**34**	**4.0**	**23**	ND	**18**	ND	**29**	NA	NA	NA	NA	NA	NA	NA	NA	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.03
Xylenes (total)	**1.8 J**	**4.0 J**	ND	**5.5**	ND	**2.6 J**	ND	**1.8 J**	ND	**1.9 J**	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

TABLE VI-1C
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	Southern E-Buffer Wells										**NC SWSL**	**NCAC 2L Std**
	Sample Locations											
Well ID	**II-1**	**II-1**	**II-1**	**II-1**	**II-1**	**II-1**	**II-1**	**II-1**	**II-1**	**II-1**		
Date Collected	4/1/10	10/6/10	5/9/11	10/10/11	4/17/12	10/26/12	4/30/13	9/11/13	4/24/14	10/6/14		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	**2.3 J**	**3.0 J**	**1.1 J**	**1.7 J**	**1.2 J**	**1.6 J**	**0.77 J**	**0.89 J**	**0.79 J**	**0.53 J**	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	ND	**0.43 J**	ND	ND	ND	**0.41 J**	ND	ND	ND	**0.61 J**	5	20
1,4-Dichlorobenzene	**6.5**	**7.5**	**4.0**	**7.6**	**4.6**	**7.7**	**3.4**	**4.3**	**5.6**	**8.2**	1	6
4-Methyl 2-Pentanone	**5.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	ND	ND	ND	ND	ND	**3.3 J**	ND	**4.0 J**	ND	ND	100	6,000
Benzene	**1.1**	**1.2**	**0.78 J**	**0.98 J**	**0.91 J**	**1.5**	**0.45 J**	**1.1**	ND	**1.1**	1	1
Chlorobenzene	**2.2 J**	**3.2**	**1.2 J**	**4.0**	**2.0**	**3.5**	**1.4 J**	**2.9 J**	**3.0**	**4.3**	3	50
Chloroethane	**0.95 J**	**1.6 J**	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	**3.3 J**	**4.2 J**	**0.88 J**	ND	**2.1 J**	**3.0 J**	**1.3 J**	**2.6 J**	**0.43 J**	**1.1 J**	5	70
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	**0.53 J**	**0.48 J**	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	**11**	**4.4**	**10**	**5.5**	**6.5**	**14**	**13**	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	**0.90 J**	**1.4**	ND	ND	**0.52 J**	**1.3**	ND	**0.43 J**	ND	ND	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

TABLE VI-1D
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	Northern Ebuffer Wells																	NC SWSL	NCAC 2L Std.
	Sample Locations																		
Well ID	II-9	II-9	II-9	II-9	II-9	II-9	II-9	II-9	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3	SMW-3		
Date Collected	4/29/10	10/7/11	4/19/12	10/25/12	4/30/13	9/18/13	4/24/14	10/7/14	8/2/10	10/11/10	10/7/11	4/19/12	10/23/12	5/3/13	9/18/13	4/24/14	10/7/14		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	ND	**5.8**	**6.9**	**9.6**	**7.9**	**9.9**	ND	**6.5**	**4.2 J**	**3.8 J**	**0.88 J**	**5.4**	**5.0**	**4.5 J**	**5.6**	**5.8**	**5.6**	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	**3.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	100	6,000
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	ND	ND	ND	ND	ND	**0.52 J**	ND	**0.62 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	ND	ND	ND	ND	**0.81 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	**0.44 J**	**0.61 J**	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	**11**	**16**	**16**	**24**	**23**	**26**	ND	**17**	**6.9**	**7.8**	**1.2 J**	**12**	**12**	**14**	**15**	**14**	**16**	5	70
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.44 J**	ND	1	0.7
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.40 J**	**0.60 J**	ND	1	3
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	**0.66 J**	**0.69 J**	**1.0 J**	**2.4**	**0.79 J**	**4.0**	ND	**2.6**	**0.49 J**	**0.68 J**	ND	ND	ND	**0.74 J**	**1.3 J**	**1.7**	**2.0**	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

TABLE VI-1E
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
DETECTED VOLATILE ORGANIC COMPOUNDS
SELECT WELLS LOCATED WITHIN WHITE STREET LANDFILL - PHASE II
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081C

	AOC II-7 Wells																			NC SWSL	NCAC 2L std
	Sample Locations																				
Well ID	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B	II-7B		
Date Collected	4/1/10	10/6/10	5/9/11	10/13/11	4/17/12	10/31/12	4/30/13	9/13/13	4/24/14	10/2/14	4/1/10	10/6/10	10/13/11	4/17/12	10/31/12	4/30/13	9/13/13	4/24/14	10/2/14		
units	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethane	**1.1 J**	**0.42 J**	ND	ND	**0.65 J**	**0.79 J**	ND	ND	ND	ND	ND	ND	ND	**0.64 J**	**0.85 J**	**0.90 J**	ND	**0.54 J**	ND	5	6
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	20
1,4-Dichlorobenzene	**0.53 J**	ND	ND	ND	**0.42 J**	**ND**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	6
4-Methyl 2-Pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ns
Acetone	**2.0 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.2 J**	ND	ND	100	6,000
Benzene	**0.64 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	50
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	3,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
cis 1,2-dichloroethene	**3.6 J**	ND	ND	ND	**0.79 J**	**0.48 J**	ND	ND	ND	ND	ND	ND	ND	**0.58 J**	**0.44 J**	ND	ND	ND	ND	5	70
Tetrachloroethene	**0.56 J**	ND	ND	ND	ND	**0.52 J**	ND	ND	ND	ND	**0.57 J**	**0.57 J**	ND	**0.41 J**	**0.52 J**	**0.48 J**	ND	**0.51 J**	ND	1	0.7
Toluene	**1.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	600
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3
Tetrahydrofuran	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	**130**	**170**	**150**	**18**	**140**	ND	NE	NS
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	2,000
Vinyl Chloride	**0.80 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	0.03
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	500

ND = compound not detected
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = no corresponding NCAC 2L groundwater quality standard
NC SWSL= North Carolina Solid Waste Section Limit (minimum detection limits)
NCAC 2L std. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in orange were detected above the 2L standards

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, October 23, 2014

City of Greensboro (CI034)

Attn: Gail Hay

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill App IIs - CAS
ENCO Workorder(s): C411817

Dear Gail Hay,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, October 8, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 81.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-SMW4 **Lab ID: C411817-01** **Sampled: 10/07/14 15:45** **Received: 10/08/14 11:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/15		10/13/14	11:27	10/15/2014	14:10
EPA 6020A	04/05/15		10/10/14	10:58	10/13/2014	12:30
EPA 7470A	11/04/14		10/14/14	09:58	10/15/2014	13:36
EPA 8081B	10/14/14	11/20/14	10/11/14	12:45	10/14/2014	22:26
EPA 8082A	10/07/15	11/20/14	10/11/14	12:54	10/14/2014	22:26
EPA 8151A	10/14/14	11/19/14	10/10/14	14:07	10/15/2014	22:26
EPA 8260B	10/21/14		10/15/14	17:02	10/17/2014	09:31
EPA 8270D	10/14/14	11/18/14	10/09/14	14:00	10/21/2014	18:40
EPA 9014	10/21/14		10/15/14	12:45	10/15/2014	16:56
SM 4500S2 D-2000	10/14/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-SMW1 **Lab ID: C411817-02** **Sampled: 10/07/14 11:35** **Received: 10/08/14 11:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/15		10/13/14	11:27	10/15/2014	14:13
EPA 6020A	04/05/15		10/10/14	10:58	10/13/2014	12:12
EPA 7470A	11/04/14		10/14/14	09:58	10/15/2014	13:38
EPA 8081B	10/14/14	11/20/14	10/11/14	12:45	10/14/2014	22:53
EPA 8082A	10/07/15	11/20/14	10/11/14	12:54	10/14/2014	22:53
EPA 8151A	10/14/14	11/19/14	10/10/14	14:07	10/15/2014	22:52
EPA 8260B	10/21/14		10/15/14	17:02	10/17/2014	10:01
EPA 8270D	10/14/14	11/18/14	10/09/14	14:00	10/21/2014	19:11
EPA 9014	10/21/14		10/15/14	12:45	10/15/2014	17:02
SM 4500S2 D-2000	10/14/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-SMW3 **Lab ID: C411817-03** **Sampled: 10/07/14 13:40** **Received: 10/08/14 11:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/15		10/13/14	11:27	10/15/2014	14:15
EPA 6020A	04/05/15		10/10/14	10:58	10/13/2014	12:34
EPA 7470A	11/04/14		10/14/14	09:58	10/15/2014	13:21
EPA 8081B	10/14/14	11/20/14	10/11/14	12:45	10/14/2014	23:06
EPA 8082A	10/07/15	11/20/14	10/11/14	12:54	10/14/2014	23:06
EPA 8151A	10/14/14	11/19/14	10/10/14	14:07	10/15/2014	23:18
EPA 8260B	10/21/14		10/15/14	17:02	10/17/2014	10:30
EPA 8270D	10/14/14	11/18/14	10/09/14	14:00	10/21/2014	19:42
EPA 9014	10/21/14		10/15/14	12:45	10/15/2014	17:04
SM 4500S2 D-2000	10/14/14		10/10/14	13:00	10/10/2014	13:24

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Client ID: 4103-II3B	Lab ID: C411817-04	Sampled: 10/07/14 09:25	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/05/15		10/13/14	11:27	10/15/2014	14:18
EPA 6020A	04/05/15		10/10/14	10:58	10/13/2014	12:38
EPA 7470A	11/04/14		10/14/14	09:58	10/15/2014	13:40
EPA 8081B	10/14/14	11/20/14	10/11/14	12:45	10/14/2014	23:20
EPA 8082A	10/07/15	11/20/14	10/11/14	12:54	10/14/2014	23:20
EPA 8151A	10/14/14	11/19/14	10/10/14	14:07	10/15/2014	23:45
EPA 8260B	10/21/14		10/15/14	17:02	10/17/2014	11:01
EPA 8270D	10/14/14	11/18/14	10/09/14	14:00	10/21/2014	20:13
EPA 9014	10/21/14		10/15/14	12:45	10/15/2014	17:06
SM 4500S2 D-2000	10/14/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-II9	Lab ID: C411817-05	Sampled: 10/06/14 17:10	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 6010C	04/04/15		10/13/14	11:27	10/15/2014	14:20
EPA 6020A	04/04/15		10/10/14	10:58	10/13/2014	12:41
EPA 7470A	11/03/14		10/14/14	09:58	10/15/2014	13:42
EPA 8081B	10/13/14	11/20/14	10/11/14	12:45	10/14/2014	23:33
EPA 8082A	10/06/15	11/20/14	10/11/14	12:54	10/14/2014	23:33
EPA 8151A	10/14/14	11/19/14	10/10/14	14:07	10/16/2014	00:11
EPA 8270D	10/13/14	11/18/14	10/09/14	14:00	10/21/2014	20:44
EPA 9014	10/20/14		10/14/14	12:43	10/15/2014	13:42
SM 4500S2 D-2000	10/13/14		10/10/14	13:00	10/10/2014	13:24

Client ID: 4103-II9	Lab ID: C411817-05RE1	Sampled: 10/06/14 17:10	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	10/20/14	10/16/14	16:43	10/20/2014	05:53

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-SMW4 **Lab ID: C411817-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.532	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	266		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.93	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.22	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	9.65	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Thallium - Total	0.230	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Zinc - Total	12.3		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SMW1 **Lab ID: C411817-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.316	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	112		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	4.16	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	11.2		1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.77	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.49	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Sulfide	0.040	J	1	0.010	0.10	1000	mg/L	SM 4500S2 D-2000	
Vanadium - Total	13.1	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	58.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-SMW3 **Lab ID: C411817-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	5.6		1	0.13	1.0	5	ug/L	EPA 8260B	
Antimony - Total	0.296	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Barium - Total	222		1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	1.83	J	1	1.40	10.0	10	ug/L	EPA 6010C	
cis-1,2-Dichloroethene	16		1	0.15	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	2.76	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.50	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Vanadium - Total	7.07	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	2.0		1	0.32	1.0	1	ug/L	EPA 8260B	
Zinc - Total	6.33	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II3B **Lab ID: C411817-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	156		1	1.00	10.0	100	ug/L	EPA 6010C	
Cobalt - Total	1.42	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.68	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Zinc - Total	4.52	J	1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II9 **Lab ID: C411817-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	109		1	1.00	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	1.62		1	0.360	1.00	1	ug/L	EPA 6010C	
Chromium - Total	2.67	J	1	1.40	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.61	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	28.2		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.52	J	1	2.10	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II9 **Lab ID: C411817-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nickel - Total	2.62	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Vanadium - Total	3.30	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	48.5		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: 4103-II9 **Lab ID: C411817-05RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	6.5		1	0.13	1.0	5	ug/L	EPA 8260B	
Chlorobenzene	0.62	J	1	0.17	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	17		1	0.15	1.0	5	ug/L	EPA 8260B	
Vinyl chloride	2.6		1	0.32	1.0	1	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 4103-SMW4 **Lab Sample ID:** C411817-01 **Received:** 10/08/14 11:30

Matrix: Ground Water **Sampled:** 10/07/14 15:45 **Work Order:** C411817

Project: White Street Landfill App IIs - CAS **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/17/14 09:31	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/17/14 09:31	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/17/14 09:31	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/17/14 09:31	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/17/14 09:31	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/17/14 09:31	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/17/14 09:31	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/17/14 09:31	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/17/14 09:31	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/17/14 09:31	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/17/14 09:31	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/17/14 09:31	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/17/14 09:31	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 09:31	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/17/14 09:31	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 09:31	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/17/14 09:31	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/17/14 09:31	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/17/14 09:31	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 09:31	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/17/14 09:31	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 09:31	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/17/14 09:31	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/17/14 09:31	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/17/14 09:31	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/17/14 09:31	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*58*	*1*	*50.0*	*117 %*	*53-136*	*4J16051*	*EPA 8260B*	*10/17/14 09:31*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*4J16051*	*EPA 8260B*	*10/17/14 09:31*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*113 %*	*59-134*	*4J16051*	*EPA 8260B*	*10/17/14 09:31*	*MSZ*	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 18:40	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 18:40	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 18:40	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 18:40	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 18:40	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 18:40	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 18:40	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 18:40	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 18:40	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 18:40	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 18:40	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 18:40	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 18:40	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 18:40	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 18:40	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 18:40	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 18:40	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 18:40	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 18:40	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 18:40	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 18:40	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 18:40	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 18:40	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 18:40	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 18:40	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 18:40	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 18:40	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 18:40	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 18:40	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 18:40	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 18:40	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 18:40	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 18:40	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 18:40	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 18:40	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 18:40	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 18:40	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 18:40	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 18:40	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 18:40	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 18:40	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 18:40	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 18:40	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 18:40	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*87*	*1*	*100*	*87 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 18:40*	*DFM*	
2-Fluorobiphenyl	*42*	*1*	*50.0*	*84 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 18:40*	*DFM*	
2-Fluorophenol	*59*	*1*	*100*	*59 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 18:40*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*77 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 18:40*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 18:40*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*99 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 18:40*	*DFM*	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/14 22:26	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 22:26	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 22:26	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/14 22:26	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/14 22:26	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/14 22:26	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/14 22:26	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/14 22:26	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/14 22:26	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/14 22:26	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/14 22:26	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/14 22:26	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/14 22:26	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/14 22:26	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.81*	*1*	*1.00*	*81 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/14/14 22:26*	*MWC*	
Decachlorobiphenyl	*0.91*	*1*	*1.00*	*91 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/14/14 22:26*	*MWC*	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/14 22:26	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 22:26	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 22:26	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/14 22:26	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 22:26	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 22:26	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.81*	*1*	*1.00*	*81 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/14/14 22:26*	*MWC*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*105 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/14/14 22:26*	*MWC*	

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Description:	4103-SMW4	**Lab Sample ID:**	C411817-01	**Received:**	10/08/14 11:30
Matrix:	Ground Water	**Sampled:**	10/07/14 15:45	**Work Order:**	C411817
Project:	White Street Landfill App IIs - CAS	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:36	T1D	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.532**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 12:30	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 14:10	JDH	
Barium [7440-39-3] ^	**266**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 14:10	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 14:10	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 14:10	JDH	
Chromium [7440-47-3] ^	**1.93**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 14:10	JDH	
Cobalt [7440-48-4] ^	**4.22**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 14:10	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 14:10	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 14:10	JDH	
Nickel [7440-02-0] ^	**9.65**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 14:10	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 12:30	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 14:10	JDH	
Thallium [7440-28-0] ^	**0.230**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 12:30	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 14:10	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 14:10	JDH	
Zinc [7440-66-6] ^	**12.3**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 14:10	JDH	

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Description: 4103-SMW4
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-01
Sampled: 10/07/14 15:45
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 16:56	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-SMW4 | **Lab Sample ID:** C411817-01 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 15:45 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 22:26	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 22:26	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 22:26	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 22:26	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 22:26	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.5*	*1*	*2.02*	*74 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 22:26*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/17/14 10:01	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/17/14 10:01	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/17/14 10:01	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/17/14 10:01	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/17/14 10:01	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/17/14 10:01	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/17/14 10:01	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/17/14 10:01	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/17/14 10:01	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/17/14 10:01	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/17/14 10:01	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/17/14 10:01	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/17/14 10:01	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 10:01	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/17/14 10:01	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 10:01	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/17/14 10:01	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/17/14 10:01	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/17/14 10:01	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/17/14 10:01	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 10:01	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/17/14 10:01	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 10:01	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/17/14 10:01	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/17/14 10:01	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/17/14 10:01	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/17/14 10:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*59*	*1*	*50.0*	*119 %*	*53-136*	*4J16051*	*EPA 8260B*	*10/17/14 10:01*	*MSZ*	
Dibromofluoromethane	*59*	*1*	*50.0*	*117 %*	*67-129*	*4J16051*	*EPA 8260B*	*10/17/14 10:01*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*115 %*	*59-134*	*4J16051*	*EPA 8260B*	*10/17/14 10:01*	*MSZ*	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 19:11	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 19:11	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 19:11	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:11	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 19:11	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 19:11	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:11	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 19:11	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 19:11	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 19:11	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 19:11	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 19:11	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 19:11	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 19:11	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 19:11	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 19:11	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 19:11	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 19:11	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 19:11	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 19:11	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:11	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 19:11	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:11	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 19:11	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 19:11	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 19:11	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 19:11	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 19:11	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 19:11	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 19:11	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 19:11	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 19:11	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:11	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 19:11	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 19:11	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 19:11	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:11	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 19:11	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 19:11	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:11	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:11	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:11	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:11	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 19:11	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*89*	*1*	*100*	*89 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 19:11*	*DFM*	
2-Fluorobiphenyl	*45*	*1*	*50.0*	*90 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 19:11*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 19:11*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 19:11*	*DFM*	
Phenol-d5	*49*	*1*	*100*	*49 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 19:11*	*DFM*	
Terphenyl-d14	*55*	*1*	*50.0*	*110 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 19:11*	*DFM*	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/14 22:53	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 22:53	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 22:53	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/14 22:53	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/14 22:53	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/14 22:53	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/14 22:53	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/14 22:53	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/14 22:53	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/14 22:53	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/14 22:53	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/14 22:53	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/14 22:53	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/14 22:53	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/14/14 22:53*	*MWC*	
Decachlorobiphenyl	*0.73*	*1*	*1.00*	*73 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/14/14 22:53*	*MWC*	

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Description: 4103-SMW1
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-02
Sampled: 10/07/14 11:35
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/14 22:53	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 22:53	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 22:53	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/14 22:53	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 22:53	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 22:53	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.92*	*1*	*1.00*	*92 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/14/14 22:53*	*MWC*	
Decachlorobiphenyl	*0.73*	*1*	*1.00*	*73 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/14/14 22:53*	*MWC*	

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Description: 4103-SMW1
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-02
Sampled: 10/07/14 11:35
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:38	T1D	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.316**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 12:12	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 14:13	JDH	
Barium [7440-39-3] ^	**112**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 14:13	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 14:13	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 14:13	JDH	
Chromium [7440-47-3] ^	**4.16**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 14:13	JDH	
Cobalt [7440-48-4] ^	**11.2**		ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 14:13	JDH	
Copper [7440-50-8] ^	**1.77**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 14:13	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 14:13	JDH	
Nickel [7440-02-0] ^	**2.49**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 14:13	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 12:12	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 14:13	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 12:12	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 14:13	JDH	
Vanadium [7440-62-2] ^	**13.1**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 14:13	JDH	
Zinc [7440-66-6] ^	**58.2**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 14:13	JDH	

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Description: 4103-SMW1
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-02
Sampled: 10/07/14 11:35
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 17:02	c1v	
Sulfide [18496-25-8] ^	**0.040**	J	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-SMW1 | **Lab Sample ID:** C411817-02 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 11:35 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 22:52	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 22:52	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 22:52	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 22:52	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 22:52	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.7*	*1*	*2.00*	*86 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 22:52*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/17/14 10:30	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,1-Dichloroethane [75-34-3] ^	**5.6**		ug/L	1	0.13	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/17/14 10:30	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/17/14 10:30	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/17/14 10:30	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/17/14 10:30	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/17/14 10:30	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/17/14 10:30	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/17/14 10:30	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/17/14 10:30	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/17/14 10:30	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/17/14 10:30	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/17/14 10:30	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/17/14 10:30	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 10:30	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/17/14 10:30	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**16**		ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 10:30	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/17/14 10:30	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/17/14 10:30	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/17/14 10:30	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/17/14 10:30	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 10:30	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/17/14 10:30	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 10:30	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/17/14 10:30	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/17/14 10:30	MSZ	
Vinyl chloride [75-01-4] ^	**2.0**		ug/L	1	0.32	1.0	1	EPA 8260B	10/17/14 10:30	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/17/14 10:30	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*120 %*	*53-136*	*4J16051*	*EPA 8260B*	*10/17/14 10:30*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*113 %*	*67-129*	*4J16051*	*EPA 8260B*	*10/17/14 10:30*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*117 %*	*59-134*	*4J16051*	*EPA 8260B*	*10/17/14 10:30*	*MSZ*	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 19:42	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 19:42	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 19:42	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:42	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 19:42	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 19:42	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:42	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 19:42	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 19:42	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 19:42	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 19:42	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 19:42	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 19:42	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 19:42	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 19:42	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 19:42	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 19:42	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 19:42	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 19:42	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 19:42	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:42	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 19:42	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:42	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 19:42	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 19:42	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 19:42	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 19:42	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 19:42	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 19:42	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 19:42	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 19:42	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 19:42	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 19:42	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 19:42	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 19:42	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 19:42	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 19:42	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 19:42	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 19:42	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 19:42	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 19:42	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 19:42	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 19:42	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 19:42	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 19:42*	*DFM*	
2-Fluorobiphenyl	*48*	*1*	*50.0*	*95 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 19:42*	*DFM*	
2-Fluorophenol	*62*	*1*	*100*	*62 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 19:42*	*DFM*	
Nitrobenzene-d5	*42*	*1*	*50.0*	*83 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 19:42*	*DFM*	
Phenol-d5	*51*	*1*	*100*	*51 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 19:42*	*DFM*	
Terphenyl-d14	*52*	*1*	*50.0*	*104 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 19:42*	*DFM*	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/14 23:06	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 23:06	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 23:06	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/14 23:06	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/14 23:06	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/14 23:06	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/14 23:06	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/14 23:06	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/14 23:06	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/14 23:06	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/14 23:06	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/14 23:06	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/14 23:06	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/14 23:06	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.98*	*1*	*1.00*	*98 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/14/14 23:06*	*MWC*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/14/14 23:06*	*MWC*	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/14 23:06	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 23:06	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 23:06	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/14 23:06	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 23:06	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 23:06	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.98*	*1*	*1.00*	*98 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/14/14 23:06*	*MWC*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/14/14 23:06*	*MWC*	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-03
Sampled: 10/07/14 13:40
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:21	T1D	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.296**	J	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 12:34	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 14:15	JDH	
Barium [7440-39-3] ^	**222**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 14:15	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 14:15	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 14:15	JDH	
Chromium [7440-47-3] ^	**1.83**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 14:15	JDH	
Cobalt [7440-48-4] ^	**2.76**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 14:15	JDH	
Copper [7440-50-8] ^	**4.50**	J	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 14:15	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 14:15	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 14:15	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 12:34	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 14:15	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 12:34	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 14:15	JDH	
Vanadium [7440-62-2] ^	**7.07**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 14:15	JDH	
Zinc [7440-66-6] ^	**6.33**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 14:15	JDH	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-03
Sampled: 10/07/14 13:40
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 17:04	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-SMW3 | **Lab Sample ID:** C411817-03 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 13:40 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 23:18	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 23:18	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 23:18	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 23:18	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 23:18	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*1.4*	*1*	*1.98*	*70 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 23:18*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/17/14 11:01	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,1-Dichloroethane [75-34-3] ^	0.13	U	ug/L	1	0.13	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/17/14 11:01	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/17/14 11:01	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/17/14 11:01	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/17/14 11:01	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/17/14 11:01	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/17/14 11:01	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/17/14 11:01	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/17/14 11:01	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/17/14 11:01	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/17/14 11:01	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/17/14 11:01	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/17/14 11:01	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Chlorobenzene [108-90-7] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 11:01	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/17/14 11:01	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/17/14 11:01	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/17/14 11:01	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/17/14 11:01	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/17/14 11:01	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/17/14 11:01	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/17/14 11:01	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/17/14 11:01	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/17/14 11:01	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/17/14 11:01	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/17/14 11:01	MSZ	
Vinyl chloride [75-01-4] ^	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	10/17/14 11:01	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/17/14 11:01	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*59*	*1*	*50.0*	*118 %*	*53-136*	*4J16051*	*EPA 8260B*	*10/17/14 11:01*	*MSZ*	
Dibromofluoromethane	*55*	*1*	*50.0*	*110 %*	*67-129*	*4J16051*	*EPA 8260B*	*10/17/14 11:01*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*119 %*	*59-134*	*4J16051*	*EPA 8260B*	*10/17/14 11:01*	*MSZ*	

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Description: 4103-II3B | **Lab Sample ID:** C411817-04 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 09:25 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 20:13	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 20:13	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 20:13	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:13	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 20:13	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 20:13	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:13	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 20:13	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 20:13	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 20:13	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 20:13	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 20:13	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 20:13	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 20:13	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 20:13	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 20:13	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 20:13	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 20:13	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	

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Description: 4103-II3B | **Lab Sample ID:** C411817-04 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/07/14 09:25 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 20:13	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 20:13	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:13	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 20:13	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:13	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 20:13	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 20:13	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 20:13	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 20:13	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 20:13	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 20:13	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 20:13	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 20:13	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 20:13	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:13	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 20:13	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 20:13	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 20:13	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:13	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 20:13	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 20:13	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:13	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:13	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:13	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:13	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 20:13	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*72*	*1*	*100*	*72 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 20:13*	*DFM*	
2-Fluorobiphenyl	*46*	*1*	*50.0*	*93 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 20:13*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 20:13*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 20:13*	*DFM*	
Phenol-d5	*48*	*1*	*100*	*48 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 20:13*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*97 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 20:13*	*DFM*	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/14 23:20	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 23:20	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 23:20	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/14 23:20	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/14 23:20	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/14 23:20	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/14 23:20	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/14 23:20	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/14 23:20	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/14 23:20	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/14 23:20	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/14 23:20	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/14 23:20	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/14 23:20	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*113 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/14/14 23:20*	*MWC*	
Decachlorobiphenyl	*0.96*	*1*	*1.00*	*96 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/14/14 23:20*	*MWC*	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/14 23:20	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 23:20	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 23:20	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/14 23:20	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 23:20	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 23:20	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*113 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/14/14 23:20*	*MWC*	
Decachlorobiphenyl	*0.96*	*1*	*1.00*	*96 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/14/14 23:20*	*MWC*	

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Description:	4103-II3B	**Lab Sample ID:**	C411817-04	**Received:**	10/08/14 11:30
Matrix:	Ground Water	**Sampled:**	10/07/14 09:25	**Work Order:**	C411817
Project:	White Street Landfill App IIs - CAS	**Sampled By:**	Gary Simcox		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:40	T1D	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 12:38	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 14:18	JDH	
Barium [7440-39-3] ^	**156**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 14:18	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 14:18	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 14:18	JDH	
Chromium [7440-47-3] ^	1.40	U	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 14:18	JDH	
Cobalt [7440-48-4] ^	**1.42**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 14:18	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 14:18	JDH	
Lead [7439-92-1] ^	2.10	U	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 14:18	JDH	
Nickel [7440-02-0] ^	**3.68**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 14:18	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 12:38	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 14:18	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 12:38	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 14:18	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 14:18	JDH	
Zinc [7440-66-6] ^	**4.52**	J	ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 14:18	JDH	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 17:06	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-II3B
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-04
Sampled: 10/07/14 09:25
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/15/14 23:45	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/15/14 23:45	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/15/14 23:45	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/15/14 23:45	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/15/14 23:45	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.8*	*1*	*2.00*	*138 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/15/14 23:45*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
1,1,1-Trichloroethane [71-55-6] ^	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	10/20/14 05:53	MSZ	
1,1,2-Trichloroethane [79-00-5] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,1-Dichloroethane [75-34-3] ^	**6.5**		ug/L	1	0.13	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
1,1-Dichloroethene [75-35-4] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
1,1-Dichloropropene [563-58-6] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
1,2,3-Trichloropropane [96-18-4] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,2,4-Trichlorobenzene [120-82-1] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	10/20/14 05:53	MSZ	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,2-Dichlorobenzene [95-50-1] ^	0.19	U	ug/L	1	0.19	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
1,2-Dichloroethane [107-06-2] ^	0.21	U	ug/L	1	0.21	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,2-Dichloropropane [78-87-5] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,3-Dichlorobenzene [541-73-1] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
1,3-Dichloropropane [142-28-9] ^	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
1,4-Dichlorobenzene [106-46-7] ^	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
2,2-Dichloropropane [594-20-7] ^	0.28	U	ug/L	1	0.28	1.0	15	EPA 8260B	10/20/14 05:53	MSZ	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	10/20/14 05:53	MSZ	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	10/20/14 05:53	MSZ	
3-Chloropropene [107-05-1] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	10/20/14 05:53	MSZ	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	10/20/14 05:53	MSZ	
Acetonitrile [75-05-8] ^	5.0	U	ug/L	1	5.0	10	55	EPA 8260B	10/20/14 05:53	MSZ	
Acrolein [107-02-8] ^	4.0	U	ug/L	1	4.0	10	53	EPA 8260B	10/20/14 05:53	MSZ	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	10/20/14 05:53	MSZ	
Benzene [71-43-2] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Bromochloromethane [74-97-5] ^	0.48	U	ug/L	1	0.48	1.0	3	EPA 8260B	10/20/14 05:53	MSZ	
Bromodichloromethane [75-27-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Bromoform [75-25-2] ^	0.22	U	ug/L	1	0.22	1.0	3	EPA 8260B	10/20/14 05:53	MSZ	
Bromomethane [74-83-9] ^	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	10/20/14 05:53	MSZ	
Carbon tetrachloride [56-23-5] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Chlorobenzene [108-90-7] ^	**0.62**	J	ug/L	1	0.17	1.0	3	EPA 8260B	10/20/14 05:53	MSZ	
Chloroethane [75-00-3] ^	0.23	U	ug/L	1	0.23	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
Chloroform [67-66-3] ^	0.18	U	ug/L	1	0.18	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
Chloromethane [74-87-3] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Chloroprene [126-99-8] ^	0.64	U	ug/L	1	0.64	1.0	20	EPA 8260B	10/20/14 05:53	MSZ	
cis-1,2-Dichloroethene [156-59-2] ^	**17**		ug/L	1	0.15	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
cis-1,3-Dichloropropene [10061-01-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Dibromochloromethane [124-48-1] ^	0.17	U	ug/L	1	0.17	1.0	3	EPA 8260B	10/20/14 05:53	MSZ	
Dibromomethane [74-95-3] ^	0.27	U	ug/L	1	0.27	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
Dichlorodifluoromethane [75-71-8] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
Ethyl Methacrylate [97-63-2] ^	0.38	U	ug/L	1	0.38	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
Ethylbenzene [100-41-4] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Hexachlorobutadiene [87-68-3] ^	0.22	U	ug/L	1	0.22	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	10/20/14 05:53	MSZ	
Isobutyl alcohol [78-83-1] ^	11	U	ug/L	1	11	50	100	EPA 8260B	10/20/14 05:53	MSZ	
Methacrylonitrile [126-98-7] ^	4.9	U	ug/L	1	4.9	10	100	EPA 8260B	10/20/14 05:53	MSZ	
Methyl Methacrylate [80-62-6] ^	0.51	U	ug/L	1	0.51	1.0	30	EPA 8260B	10/20/14 05:53	MSZ	
Methylene chloride [75-09-2] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Naphthalene [91-20-3] ^	0.11	U	ug/L	1	0.11	1.0	10	EPA 8260B	10/20/14 05:53	MSZ	
Propionitrile [107-12-0] ^	5.0	U	ug/L	1	5.0	10	150	EPA 8260B	10/20/14 05:53	MSZ	
Styrene [100-42-5] ^	0.11	U	ug/L	1	0.11	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Tetrachloroethene [127-18-4] ^	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Toluene [108-88-3] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
trans-1,2-Dichloroethene [156-60-5] ^	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	10/20/14 05:53	MSZ	
trans-1,3-Dichloropropene [10061-02-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	10/20/14 05:53	MSZ	
Trichloroethene [79-01-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Trichlorofluoromethane [75-69-4] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	10/20/14 05:53	MSZ	
Vinyl chloride [75-01-4] ^	**2.6**		ug/L	1	0.32	1.0	1	EPA 8260B	10/20/14 05:53	MSZ	
Xylenes (Total) [1330-20-7] ^	0.45	U	ug/L	1	0.45	3.0	5	EPA 8260B	10/20/14 05:53	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*53-136*	*4J16049*	*EPA 8260B*	*10/20/14 05:53*	*MSZ*	
Dibromofluoromethane	*39*	*1*	*50.0*	*77 %*	*67-129*	*4J16049*	*EPA 8260B*	*10/20/14 05:53*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*59-134*	*4J16049*	*EPA 8260B*	*10/20/14 05:53*	*MSZ*	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,2,4,5-Tetrachlorobenzene [95-94-3] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
1,3,5-Trinitrobenzene [99-35-4] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
1,3-Dinitrobenzene [99-65-0] ^	1.9	U	ug/L	1	1.9	10	20	EPA 8270D	10/21/14 20:44	DFM	
1,4-Naphthoquinone [130-15-4] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 20:44	DFM	
1,4-Phenylenediamine [106-50-3] ^	4.0	U	ug/L	1	4.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
1-Naphthylamine [134-32-7] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,4,5-Trichlorophenol [95-95-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,4,6-Trichlorophenol [88-06-2] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,4-Dichlorophenol [120-83-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,4-Dimethylphenol [105-67-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,4-Dinitrophenol [51-28-5] ^	2.6	U	ug/L	1	2.6	10	50	EPA 8270D	10/21/14 20:44	DFM	
2,4-Dinitrotoluene [121-14-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,6-Dichlorophenol [87-65-0] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
2,6-Dinitrotoluene [606-20-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:44	DFM	
2-Acetylaminofluorene [53-96-3] ^	2.5	U	ug/L	1	2.5	10	20	EPA 8270D	10/21/14 20:44	DFM	
2-Chloronaphthalene [91-58-7] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
2-Chlorophenol [95-57-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1] ^	2.9	U	ug/L	1	2.9	10	50	EPA 8270D	10/21/14 20:44	DFM	
2-Methylnaphthalene [91-57-6] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:44	DFM	
2-Methylphenol [95-48-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
2-Naphthylamine [91-59-8] ^	3.0	U	ug/L	1	3.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
2-Nitroaniline [88-74-4] ^	1.5	U	ug/L	1	1.5	10	50	EPA 8270D	10/21/14 20:44	DFM	
2-Nitrophenol [88-75-5] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 20:44	DFM	
3,3'-Dichlorobenzidine [91-94-1] ^	3.3	U	ug/L	1	3.3	10	20	EPA 8270D	10/21/14 20:44	DFM	
3,3'-Dimethylbenzidine [119-93-7] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
3-Methylcholanthrene [56-49-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
3-Nitroaniline [99-09-2] ^	2.1	U	ug/L	1	2.1	10	50	EPA 8270D	10/21/14 20:44	DFM	
4-Aminobiphenyl [92-67-1] ^	2.1	U	ug/L	1	2.1	10	20	EPA 8270D	10/21/14 20:44	DFM	
4-Bromophenyl-phenylether [101-55-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
4-Chloro-3-methylphenol [59-50-7] ^	1.5	U	ug/L	1	1.5	10	20	EPA 8270D	10/21/14 20:44	DFM	
4-Chloroaniline [106-47-8] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 20:44	DFM	
4-Chlorophenyl-phenylether [7005-72-3] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 20:44	DFM	
4-Nitroaniline [100-01-6] ^	3.2	U	ug/L	1	3.2	10	20	EPA 8270D	10/21/14 20:44	DFM	
4-Nitrophenol [100-02-7] ^	2.0	U	ug/L	1	2.0	10	50	EPA 8270D	10/21/14 20:44	DFM	
5-Nitro-o-toluidine [99-55-8] ^	3.2	U	ug/L	1	3.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
7,12-Dimethylbenz(a)anthracene [57-97-6] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Acenaphthene [83-32-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Acenaphthylene [208-96-8] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
Acetophenone [98-86-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Anthracene [120-12-7] ^	1.6	U	ug/L	1	1.6	10	10	EPA 8270D	10/21/14 20:44	DFM	
Benzo(a)anthracene [56-55-3] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Benzo(a)pyrene [50-32-8] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Benzo(b)fluoranthene [205-99-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Benzo(g,h,i)perylene [191-24-2] ^	2.4	U	ug/L	1	2.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Benzo(k)fluoranthene [207-08-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Benzyl alcohol [100-51-6] ^	1.4	U	ug/L	1	1.4	10	20	EPA 8270D	10/21/14 20:44	DFM	
Bis(2-chloroethoxy)methane [111-91-1] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Bis(2-chloroethyl)ether [111-44-4] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
Bis(2-chloroisopropyl)ether [108-60-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7] ^	1.7	U	ug/L	1	1.7	5.0	15	EPA 8270D	10/21/14 20:44	DFM	
Butylbenzylphthalate [85-68-7] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:44	DFM	QV-01
Chlorobenzilate [510-15-6] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
Chrysene [218-01-9] ^	2.0	U	ug/L	1	2.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
Diallate [2303-16-4] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
Dibenzo(a,h)anthracene [53-70-3] ^	2.3	U	ug/L	1	2.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Dibenzofuran [132-64-9] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Diethylphthalate [84-66-2] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Dimethoate [60-51-5] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 20:44	DFM	QV-02
Dimethylphthalate [131-11-3] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Di-n-butylphthalate [84-74-2] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:44	DFM	
Di-n-octylphthalate [117-84-0] ^	3.1	U	ug/L	1	3.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Disulfoton [298-04-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Ethyl methanesulfonate [62-50-0] ^	1.2	U	ug/L	1	1.2	10	20	EPA 8270D	10/21/14 20:44	DFM	
Famphur [52-85-7] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 20:44	DFM	
Fluoranthene [206-44-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Fluorene [86-73-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 20:44	DFM	
Hexachlorobenzene [118-74-1] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
Hexachlorobutadiene [87-68-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
Hexachlorocyclopentadiene [77-47-4] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Hexachloroethane [67-72-1] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Hexachloropropene [1888-71-7] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 20:44	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5] ^	2.2	U	ug/L	1	2.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
Isodrin [465-73-6] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 20:44	DFM	
Isophorone [78-59-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Isosafrole [120-58-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Kepone [143-50-0] ^	7.2	U	ug/L	1	7.2	20	20	EPA 8270D	10/21/14 20:44	DFM	QV-01
Methapyrilene [91-80-5] ^	3.5	U	ug/L	1	3.5	10	100	EPA 8270D	10/21/14 20:44	DFM	QV-02
Methyl Methanesulfonate [66-27-3] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
Methyl parathion [298-00-0] ^	2.5	U	ug/L	1	2.5	10	10	EPA 8270D	10/21/14 20:44	DFM	
Nitrobenzene [98-95-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
N-Nitrosodiethylamine [55-18-5] ^	1.3	U	ug/L	1	1.3	10	20	EPA 8270D	10/21/14 20:44	DFM	
N-Nitrosodimethylamine [62-75-9] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
N-Nitrosodi-n-butylamine [924-16-3] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
N-Nitroso-di-n-propylamine [621-64-7] ^	1.5	U	ug/L	1	1.5	10	10	EPA 8270D	10/21/14 20:44	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
N-Nitrosomethylethylamine [10595-95-6] ^	1.9	U	ug/L	1	1.9	10	10	EPA 8270D	10/21/14 20:44	DFM	
N-Nitrosopiperidine [100-75-4] ^	1.1	U	ug/L	1	1.1	10	20	EPA 8270D	10/21/14 20:44	DFM	
N-Nitrosopyrrolidine [930-55-2] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
O,O,O-Triethyl phosphorothioate [126-68-1] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
o-Toluidine [95-53-4] ^	1.1	U	ug/L	1	1.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Parathion [56-38-2] ^	1.7	U	ug/L	1	1.7	10	10	EPA 8270D	10/21/14 20:44	DFM	
p-Dimethylaminoazobenzene [60-11-7] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Pentachlorobenzene [608-93-5] ^	1.3	U	ug/L	1	1.3	10	10	EPA 8270D	10/21/14 20:44	DFM	
Pentachloronitrobenzene [82-68-8] ^	1.0	U	ug/L	1	1.0	10	20	EPA 8270D	10/21/14 20:44	DFM	
Phenacetin [62-44-2] ^	2.7	U	ug/L	1	2.7	10	20	EPA 8270D	10/21/14 20:44	DFM	
Phenanthrene [85-01-8] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Phenol [108-95-2] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Phorate [298-02-2] ^	1.0	U	ug/L	1	1.0	10	10	EPA 8270D	10/21/14 20:44	DFM	
Pronamide [23950-58-5] ^	1.4	U	ug/L	1	1.4	10	10	EPA 8270D	10/21/14 20:44	DFM	
Pyrene [129-00-0] ^	2.1	U	ug/L	1	2.1	10	10	EPA 8270D	10/21/14 20:44	DFM	
Safrole [94-59-7] ^	1.2	U	ug/L	1	1.2	10	10	EPA 8270D	10/21/14 20:44	DFM	
Thionazin [297-97-2] ^	2.3	U	ug/L	1	2.3	10	20	EPA 8270D	10/21/14 20:44	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*56*	*1*	*100*	*56 %*	*10-179*	*4J08042*	*EPA 8270D*	*10/21/14 20:44*	*DFM*	
2-Fluorobiphenyl	*29*	*1*	*50.0*	*58 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 20:44*	*DFM*	
2-Fluorophenol	*40*	*1*	*100*	*40 %*	*10-110*	*4J08042*	*EPA 8270D*	*10/21/14 20:44*	*DFM*	
Nitrobenzene-d5	*27*	*1*	*50.0*	*54 %*	*10-149*	*4J08042*	*EPA 8270D*	*10/21/14 20:44*	*DFM*	
Phenol-d5	*33*	*1*	*100*	*33 %*	*10-88*	*4J08042*	*EPA 8270D*	*10/21/14 20:44*	*DFM*	
Terphenyl-d14	*36*	*1*	*50.0*	*72 %*	*10-188*	*4J08042*	*EPA 8270D*	*10/21/14 20:44*	*DFM*	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Organochlorine Pesticides by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8] ^	0.044	U	ug/L	1	0.044	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
4,4'-DDE [72-55-9] ^	0.048	U	ug/L	1	0.048	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
4,4'-DDT [50-29-3] ^	0.049	U	ug/L	1	0.049	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
Aldrin [309-00-2] ^	0.041	U	ug/L	1	0.041	0.050	0.05	EPA 8081B	10/14/14 23:33	MWC	
alpha-BHC [319-84-6] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 23:33	MWC	
beta-BHC [319-85-7] ^	0.036	U	ug/L	1	0.036	0.050	0.05	EPA 8081B	10/14/14 23:33	MWC	
Chlordane (tech) [12789-03-6] ^	0.20	U	ug/L	1	0.20	0.50	0.5	EPA 8081B	10/14/14 23:33	MWC	
Chlordane-alpha [5103-71-9] ^	0.048	U	ug/L	1	0.048	0.050	NE	EPA 8081B	10/14/14 23:33	MWC	
Chlordane-gamma [5566-34-7] ^	0.042	U	ug/L	1	0.042	0.050	NE	EPA 8081B	10/14/14 23:33	MWC	
delta-BHC [319-86-8] ^	0.048	U	ug/L	1	0.048	0.050	0.05	EPA 8081B	10/14/14 23:33	MWC	
Dieldrin [60-57-1] ^	0.045	U	ug/L	1	0.045	0.050	0.075	EPA 8081B	10/14/14 23:33	MWC	
Endosulfan I [959-98-8] ^	0.045	U	ug/L	1	0.045	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
Endosulfan II [33213-65-9] ^	0.036	U	ug/L	1	0.036	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
Endosulfan sulfate [1031-07-8] ^	0.032	U	ug/L	1	0.032	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
Endrin [72-20-8] ^	0.041	U	ug/L	1	0.041	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
Endrin aldehyde [7421-93-4] ^	0.042	U	ug/L	1	0.042	0.050	0.1	EPA 8081B	10/14/14 23:33	MWC	
gamma-BHC [58-89-9] ^	0.034	U	ug/L	1	0.034	0.050	0.05	EPA 8081B	10/14/14 23:33	MWC	
Heptachlor [76-44-8] ^	0.030	U	ug/L	1	0.030	0.050	0.05	EPA 8081B	10/14/14 23:33	MWC	
Heptachlor epoxide [1024-57-3] ^	0.037	U	ug/L	1	0.037	0.050	0.075	EPA 8081B	10/14/14 23:33	MWC	
Methoxychlor [72-43-5] ^	0.025	U	ug/L	1	0.025	0.050	1	EPA 8081B	10/14/14 23:33	MWC	
Toxaphene [8001-35-2] ^	0.22	U	ug/L	1	0.22	0.50	1.5	EPA 8081B	10/14/14 23:33	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.89*	*1*	*1.00*	*89 %*	*44-134*	*4J11002*	*EPA 8081B*	*10/14/14 23:33*	*MWC*	
Decachlorobiphenyl	*0.81*	*1*	*1.00*	*81 %*	*37-149*	*4J11002*	*EPA 8081B*	*10/14/14 23:33*	*MWC*	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-05
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Polychlorinated Biphenyls by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
PCB-1016/1242 [12674-11-2/53469-21-9] ^	0.43	U	ug/L	1	0.43	0.50	2	EPA 8082A	10/14/14 23:33	MWC	
PCB-1221 [11104-28-2] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 23:33	MWC	
PCB-1232 [11141-16-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 23:33	MWC	
PCB-1248 [12672-29-6] ^	0.014	U	ug/L	1	0.014	0.50	NE	EPA 8082A	10/14/14 23:33	MWC	
PCB-1254 [11097-69-1] ^	0.37	U	ug/L	1	0.37	0.50	NE	EPA 8082A	10/14/14 23:33	MWC	
PCB-1260 [11096-82-5] ^	0.45	U	ug/L	1	0.45	0.50	NE	EPA 8082A	10/14/14 23:33	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.91*	*1*	*1.00*	*91 %*	*45-151*	*4J11003*	*EPA 8082A*	*10/14/14 23:33*	*MWC*	
Decachlorobiphenyl	*0.89*	*1*	*1.00*	*89 %*	*42-159*	*4J11003*	*EPA 8082A*	*10/14/14 23:33*	*MWC*	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-05
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	10/15/14 13:42	T1D	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Metals (total recoverable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	10/13/14 12:41	VLO	
Arsenic [7440-38-2] ^	5.40	U	ug/L	1	5.40	10.0	10	EPA 6010C	10/15/14 14:20	JDH	
Barium [7440-39-3] ^	**109**		ug/L	1	1.00	10.0	100	EPA 6010C	10/15/14 14:20	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	10/15/14 14:20	JDH	
Cadmium [7440-43-9] ^	**1.62**		ug/L	1	0.360	1.00	1	EPA 6010C	10/15/14 14:20	JDH	
Chromium [7440-47-3] ^	**2.67**	J	ug/L	1	1.40	10.0	10	EPA 6010C	10/15/14 14:20	JDH	
Cobalt [7440-48-4] ^	**4.61**	J	ug/L	1	1.10	10.0	10	EPA 6010C	10/15/14 14:20	JDH	
Copper [7440-50-8] ^	**28.2**		ug/L	1	1.60	10.0	10	EPA 6010C	10/15/14 14:20	JDH	
Lead [7439-92-1] ^	**2.52**	J	ug/L	1	2.10	10.0	10	EPA 6010C	10/15/14 14:20	JDH	
Nickel [7440-02-0] ^	**2.62**	J	ug/L	1	1.80	10.0	50	EPA 6010C	10/15/14 14:20	JDH	
Selenium [7782-49-2] ^	0.910	U	ug/L	1	0.910	3.00	10	EPA 6020A	10/13/14 12:41	VLO	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	10/15/14 14:20	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	10/13/14 12:41	VLO	
Tin [7440-31-5] ^	2.10	U	ug/L	1	2.10	10.0	100	EPA 6010C	10/15/14 14:20	JDH	
Vanadium [7440-62-2] ^	**3.30**	J	ug/L	1	1.40	10.0	25	EPA 6010C	10/15/14 14:20	JDH	
Zinc [7440-66-6] ^	**48.5**		ug/L	1	3.80	10.0	10	EPA 6010C	10/15/14 14:20	JDH	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill App IIs - CAS

Lab Sample ID: C411817-05
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411817

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Cyanide (total) [57-12-5] ^	0.0049	U	mg/L	1	0.0049	0.010	10	EPA 9014	10/15/14 13:42	c1v	
Sulfide [18496-25-8] ^	0.010	U	mg/L	1	0.010	0.10	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	

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Description: 4103-II9 | **Lab Sample ID:** C411817-05 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 17:10 | **Work Order:** C411817

Project: White Street Landfill App IIs - CAS | **Sampled By:** Gary Simcox

Chlorinated Herbicides by GC

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
2,4,5-T [93-76-5] ^	0.28	U	ug/L	1	0.28	0.50	2	EPA 8151A	10/16/14 00:11	RC	
2,4,5-TP (Silvex) [93-72-1] ^	0.44	U	ug/L	1	0.44	0.50	2	EPA 8151A	10/16/14 00:11	RC	
2,4-D [94-75-7] ^	0.27	U	ug/L	1	0.27	0.50	2	EPA 8151A	10/16/14 00:11	RC	
Dinoseb [88-85-7] ^	0.32	U	ug/L	1	0.32	0.50	1	EPA 8151A	10/16/14 00:11	RC	
Pentachlorophenol [87-86-5] ^	0.19	U	ug/L	1	0.19	0.50	25	EPA 8151A	10/16/14 00:11	RC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4-DCAA	*2.5*	*1*	*2.02*	*125 %*	*68-139*	*4J10022*	*EPA 8151A*	*10/16/14 00:11*	*RC*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J14034 - EPA 5030B_MS

Blank (4J14034-BLK1) Prepared: 10/14/2014 16:29 Analyzed: 10/14/2014 22:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J14034 - EPA 5030B_MS

Blank (4J14034-BLK1) Continued Prepared: 10/14/2014 16:29 Analyzed: 10/14/2014 22:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*119*	*53-136*			
Surrogate: Dibromofluoromethane	*60*			*ug/L*	*50.0*		*119*	*67-129*			
Surrogate: Toluene-d8	*58*			*ug/L*	*50.0*		*115*	*59-134*			

LCS (4J14034-BS1) Prepared: 10/14/2014 16:29 Analyzed: 10/14/2014 22:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		89	83-117			
Toluene	17		1.0	ug/L	20.0		85	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			
Surrogate: 4-Bromofluorobenzene	*64*			*ug/L*	*50.0*		*129*	*53-136*			
Surrogate: Dibromofluoromethane	*56*			*ug/L*	*50.0*		*112*	*67-129*			
Surrogate: Toluene-d8	*61*			*ug/L*	*50.0*		*121*	*59-134*			

Matrix Spike (4J14034-MS1) Prepared: 10/14/2014 16:29 Analyzed: 10/14/2014 23:06

Source: C413325-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	119	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	102	81-134			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	18		1.0	ug/L	20.0	0.15 U	91	74-119			
Surrogate: 4-Bromofluorobenzene	*67*			*ug/L*	*50.0*		*133*	*53-136*			
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*67-129*			
Surrogate: Toluene-d8	*57*			*ug/L*	*50.0*		*114*	*59-134*			

Matrix Spike Dup (4J14034-MSD1) Prepared: 10/14/2014 16:29 Analyzed: 10/14/2014 23:36

Source: C413325-07

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J14034 - EPA 5030B_MS

Matrix Spike Dup (4J14034-MSD1) Continued Prepared: 10/14/2014 16:29 Analyzed: 10/14/2014 23:36

Source: C413325-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.21 U	119	75-133	0.2	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134	3	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	83-117	8	16	
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118	0.1	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	94	74-119	3	22	
Surrogate: 4-Bromofluorobenzene	*65*			*ug/L*	*50.0*		*131*	*53-136*			
Surrogate: Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Surrogate: Toluene-d8	*63*			*ug/L*	*50.0*		*125*	*59-134*			

Batch 4J16049 - EPA 5030B_MS

Blank (4J16049-BLK1) Prepared: 10/16/2014 16:43 Analyzed: 10/20/2014 03:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J16049 - EPA 5030B_MS

Blank (4J16049-BLK1) Continued Prepared: 10/16/2014 16:43 Analyzed: 10/20/2014 03:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*37*			*ug/L*	*50.0*		*74*	*53-136*			
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*81*	*67-129*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*59-134*			

LCS (4J16049-BS1) Prepared: 10/16/2014 16:43 Analyzed: 10/20/2014 03:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	20		1.0	ug/L	20.0		101	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	21		1.0	ug/L	20.0		105	71-118			
Trichloroethene	19		1.0	ug/L	20.0		93	74-119			
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*53-136*			
Surrogate: Dibromofluoromethane	*39*			*ug/L*	*50.0*		*78*	*67-129*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*59-134*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J16049 - EPA 5030B_MS

Matrix Spike (4J16049-MS1) Prepared: 10/16/2014 16:43 Analyzed: 10/20/2014 04:23

Source: C413672-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	101	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	102	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117			
Toluene	21		1.0	ug/L	20.0	0.14 U	104	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	96	74-119			
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*53-136*			
Surrogate: Dibromofluoromethane	*38*			*ug/L*	*50.0*		*77*	*67-129*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*59-134*			

Matrix Spike Dup (4J16049-MSD1) Prepared: 10/16/2014 16:43 Analyzed: 10/20/2014 04:53

Source: C413672-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	101	75-133	0.2	20	
Benzene	20		1.0	ug/L	20.0	0.15 U	100	81-134	2	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	83-117	4	16	
Toluene	20		1.0	ug/L	20.0	0.14 U	102	71-118	2	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	97	74-119	2	22	
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*53-136*			
Surrogate: Dibromofluoromethane	*39*			*ug/L*	*50.0*		*77*	*67-129*			
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*59-134*			

Batch 4J16051 - EPA 5030B_MS

Blank (4J16051-BLK1) Prepared: 10/16/2014 17:18 Analyzed: 10/17/2014 01:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.17	U	1.0	ug/L							
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,1-Dichloropropene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.23	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,3-Dichloropropane	0.16	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
2,2-Dichloropropane	0.28	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J16051 - EPA 5030B_MS

Blank (4J16051-BLK1) Continued Prepared: 10/16/2014 17:18 Analyzed: 10/17/2014 01:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Hexanone	0.88	U	5.0	ug/L							
3-Chloropropene	0.11	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acetonitrile	5.0	U	10	ug/L							
Acrolein	4.0	U	10	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
Chloroprene	0.64	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dibromomethane	0.27	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethyl Methacrylate	0.38	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Hexachlorobutadiene	0.22	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
Isobutyl alcohol	11	U	50	ug/L							
Methacrylonitrile	4.9	U	10	ug/L							
Methyl Methacrylate	0.51	U	1.0	ug/L							
Methylene chloride	0.23	U	1.0	ug/L							
Naphthalene	0.11	U	1.0	ug/L							
Propionitrile	5.0	U	10	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
Xylenes (Total)	0.45	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*60*			*ug/L*	*50.0*		*120*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Surrogate: Toluene-d8	*58*			*ug/L*	*50.0*		*117*	*59-134*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 4J16051 - EPA 5030B_MS

LCS (4J16051-BS1) Prepared: 10/16/2014 17:18 Analyzed: 10/17/2014 02:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0		120	75-133			
Benzene	19		1.0	ug/L	20.0		96	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		93	83-117			
Toluene	18		1.0	ug/L	20.0		89	71-118			
Trichloroethene	17		1.0	ug/L	20.0		84	74-119			
Surrogate: 4-Bromofluorobenzene	*68*			*ug/L*	*50.0*		*135*	*53-136*			
Surrogate: Dibromofluoromethane	*56*			*ug/L*	*50.0*		*113*	*67-129*			
Surrogate: Toluene-d8	*56*			*ug/L*	*50.0*		*113*	*59-134*			

Matrix Spike (4J16051-MS1) Prepared: 10/16/2014 17:18 Analyzed: 10/17/2014 02:39

Source: C413672-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	108	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.15 U	106	74-119			
Surrogate: 4-Bromofluorobenzene	*63*			*ug/L*	*50.0*		*125*	*53-136*			
Surrogate: Dibromofluoromethane	*56*			*ug/L*	*50.0*		*112*	*67-129*			
Surrogate: Toluene-d8	*61*			*ug/L*	*50.0*		*123*	*59-134*			

Matrix Spike Dup (4J16051-MSD1) Prepared: 10/16/2014 17:18 Analyzed: 10/17/2014 03:09

Source: C413672-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.21 U	110	75-133	2	20	
Benzene	18		1.0	ug/L	20.0	0.15 U	90	81-134	7	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	89	83-117	9	16	
Toluene	16		1.0	ug/L	20.0	0.14 U	80	71-118	14	17	
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	98	74-119	8	22	
Surrogate: 4-Bromofluorobenzene	*63*			*ug/L*	*50.0*		*125*	*53-136*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Surrogate: Toluene-d8	*59*			*ug/L*	*50.0*		*117*	*59-134*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
1,3,5-Trinitrobenzene	3.0	U	10	ug/L							
1,3-Dinitrobenzene	1.9	U	10	ug/L							
1,4-Naphthoquinone	2.5	U	10	ug/L							
1,4-Phenylenediamine	4.0	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1-Naphthylamine	1.9	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dichlorophenol	1.1	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Acetylaminofluorene	2.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Naphthylamine	3.0	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3,3'-Dimethylbenzidine	2.2	U	10	ug/L							
3-Methylcholanthrene	1.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Aminobiphenyl	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
5-Nitro-o-toluidine	3.2	U	10	ug/L							
7,12-Dimethylbenz(a)anthracene	1.1	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Benzyl alcohol	1.4	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Chlorobenzilate	1.0	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chrysene	2.0	U	10	ug/L							
Diallate	1.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethoate	2.3	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Disulfoton	1.1	U	10	ug/L							
Ethyl methanesulfonate	1.2	U	10	ug/L							
Famphur	2.7	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Hexachloropropene	1.7	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isodrin	1.0	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Isosafrole	1.3	U	10	ug/L							
Kepone	7.2	U	20	ug/L							
Methapyrilene	3.5	U	10	ug/L							
Methyl Methanesulfonate	1.0	U	10	ug/L							
Methyl parathion	2.5	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitrosodiethylamine	1.3	U	10	ug/L							
N-Nitrosodimethylamine	1.3	U	10	ug/L							
N-Nitrosodi-n-butylamine	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
N-Nitrosomethylethylamine	1.9	U	10	ug/L							
N-Nitrosopiperidine	1.1	U	10	ug/L							
N-Nitrosopyrrolidine	1.3	U	10	ug/L							
O,O,O-Triethyl phosphorothioate	1.3	U	10	ug/L							
o-Toluidine	1.1	U	10	ug/L							
Parathion	1.7	U	10	ug/L							
p-Dimethylaminoazobenzene	1.4	U	10	ug/L							
Pentachlorobenzene	1.3	U	10	ug/L							
Pentachloronitrobenzene	1.0	U	10	ug/L							
Phenacetin	2.7	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Phorate	1.0	U	10	ug/L							
Pronamide	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
Safrole	1.2	U	10	ug/L							

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Blank (4J08042-BLK1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 16:05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thionazin	2.3	U	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*83*			*ug/L*	*100*		*83*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*47*			*ug/L*	*50.0*		*94*	*10-149*			
Surrogate: 2-Fluorophenol	*58*			*ug/L*	*100*		*58*	*10-110*			
Surrogate: Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*86*	*10-149*			
Surrogate: Phenol-d5	*49*			*ug/L*	*100*		*49*	*10-88*			
Surrogate: Terphenyl-d14	*56*			*ug/L*	*50.0*		*111*	*10-188*			

LCS (4J08042-BS1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 09:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	38		10	ug/L	50.0		75	40-109			
4-Chloro-3-methylphenol	42		10	ug/L	50.0		84	58-121			
4-Nitrophenol	34		10	ug/L	50.0		67	33-105			
Acenaphthene	44		10	ug/L	50.0		88	39-125			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0		82	48-126			
Phenol	29		10	ug/L	50.0		57	19-78			
Pyrene	48		10	ug/L	50.0		96	44-137			
Surrogate: 2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*100*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: 2-Fluorophenol	*59*			*ug/L*	*100*		*59*	*10-110*			
Surrogate: Nitrobenzene-d5	*37*			*ug/L*	*50.0*		*75*	*10-149*			
Surrogate: Phenol-d5	*54*			*ug/L*	*100*		*54*	*10-88*			
Surrogate: Terphenyl-d14	*50*			*ug/L*	*50.0*		*100*	*10-188*			

Matrix Spike (4J08042-MS1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 09:49

Source: C413192-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	11		10	ug/L	50.0	1.2 U	22	40-109			QM-07
4-Chloro-3-methylphenol	18		10	ug/L	50.0	1.5 U	35	58-121			QM-07
4-Nitrophenol	4.3	J	10	ug/L	50.0	2.0 U	9	33-105			QM-07
Acenaphthene	44		10	ug/L	50.0	1.4 U	88	39-125			
N-Nitroso-di-n-propylamine	45		10	ug/L	50.0	1.5 U	91	48-126			
Phenol	6.5	J	10	ug/L	50.0	1.4 U	13	19-78			QM-07
Pyrene	48		10	ug/L	50.0	2.1 U	96	44-137			
Surrogate: 2,4,6-Tribromophenol	*26*			*ug/L*	*100*		*26*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*90*	*10-149*			
Surrogate: 2-Fluorophenol	*13*			*ug/L*	*100*		*13*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*83*	*10-149*			
Surrogate: Phenol-d5	*12*			*ug/L*	*100*		*12*	*10-88*			
Surrogate: Terphenyl-d14	*48*			*ug/L*	*50.0*		*97*	*10-188*			

Matrix Spike Dup (4J08042-MSD1) Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 10:20

Source: C413192-06

QUALITY CONTROL

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4J08042 - EPA 3510C_MS

Matrix Spike Dup (4J08042-MSD1) Continued Prepared: 10/08/2014 20:30 Analyzed: 10/21/2014 10:20

Source: C413192-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	40		10	ug/L	50.0	1.2 U	80	40-109	112	22	QM-11
4-Chloro-3-methylphenol	41		10	ug/L	50.0	1.5 U	82	58-121	80	22	QM-11
4-Nitrophenol	22		10	ug/L	50.0	2.0 U	45	33-105	135	27	QM-11
Acenaphthene	47		10	ug/L	50.0	1.4 U	93	39-125	6	25	
N-Nitroso-di-n-propylamine	46		10	ug/L	50.0	1.5 U	92	48-126	2	23	
Phenol	22		10	ug/L	50.0	1.4 U	44	19-78	109	18	QM-11
Pyrene	50		10	ug/L	50.0	2.1 U	99	44-137	4	24	
Surrogate: 2,4,6-Tribromophenol	*91*			*ug/L*	*100*		*91*	*10-179*			
Surrogate: 2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*90*	*10-149*			
Surrogate: 2-Fluorophenol	*50*			*ug/L*	*100*		*50*	*10-110*			
Surrogate: Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*85*	*10-149*			
Surrogate: Phenol-d5	*40*			*ug/L*	*100*		*40*	*10-88*			
Surrogate: Terphenyl-d14	*49*			*ug/L*	*50.0*		*98*	*10-188*			

Organochlorine Pesticides by GC - Quality Control

Batch 4J11002 - EPA 3510C

Blank (4J11002-BLK1) Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 20:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.044	U	0.050	ug/L							
4,4'-DDE	0.048	U	0.050	ug/L							
4,4'-DDT	0.049	U	0.050	ug/L							
Aldrin	0.041	U	0.050	ug/L							
alpha-BHC	0.036	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.048	U	0.050	ug/L							
Chlordane-gamma	0.042	U	0.050	ug/L							
delta-BHC	0.048	U	0.050	ug/L							
Dieldrin	0.045	U	0.050	ug/L							
Endosulfan I	0.045	U	0.050	ug/L							
Endosulfan II	0.036	U	0.050	ug/L							
Endosulfan sulfate	0.032	U	0.050	ug/L							
Endrin	0.041	U	0.050	ug/L							
Endrin aldehyde	0.042	U	0.050	ug/L							
gamma-BHC	0.034	U	0.050	ug/L							
Heptachlor	0.030	U	0.050	ug/L							
Heptachlor epoxide	0.037	U	0.050	ug/L							
Methoxychlor	0.025	U	0.050	ug/L							
Toxaphene	0.22	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*102*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.70*			*ug/L*	*1.00*		*70*	*37-149*			

LCS (4J11002-BS1) Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 21:07

QUALITY CONTROL

Organochlorine Pesticides by GC - Quality Control

Batch 4J11002 - EPA 3510C

LCS (4J11002-BS1) Continued Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 21:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.92		0.050	ug/L	1.00		92	37-139			
Dieldrin	0.90		0.050	ug/L	1.00		90	46-132			
Endrin	0.91		0.050	ug/L	1.00		91	43-133			
Surrogate: 2,4,5,6-TCMX	*0.88*			*ug/L*	*1.00*		*88*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.65*			*ug/L*	*1.00*		*65*	*37-149*			

Matrix Spike (4J11002-MS1) Prepared: 10/11/2014 12:45 Analyzed: 10/15/2014 09:46

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.95		0.050	ug/L	1.00	0.049 U	95	37-139			
Dieldrin	0.94		0.050	ug/L	1.00	0.045 U	94	46-132			
Endrin	0.94		0.050	ug/L	1.00	0.041 U	94	43-133			
Surrogate: 2,4,5,6-TCMX	*0.89*			*ug/L*	*1.00*		*89*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.51*			*ug/L*	*1.00*		*51*	*37-149*			

Matrix Spike Dup (4J11002-MSD1) Prepared: 10/11/2014 12:45 Analyzed: 10/14/2014 21:33

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.88		0.050	ug/L	1.00	0.049 U	88	37-139	8	26	
Dieldrin	0.92		0.050	ug/L	1.00	0.045 U	92	46-132	2	27	
Endrin	0.92		0.050	ug/L	1.00	0.041 U	92	43-133	2	26	
Surrogate: 2,4,5,6-TCMX	*0.79*			*ug/L*	*1.00*		*79*	*44-134*			
Surrogate: Decachlorobiphenyl	*0.90*			*ug/L*	*1.00*		*90*	*37-149*			

Polychlorinated Biphenyls by GC - Quality Control

Batch 4J11003 - EPA 3510C

Blank (4J11003-BLK1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 20:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	0.43	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1248	0.014	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
Surrogate: 2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*102*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.70*			*ug/L*	*1.00*		*70*	*42-159*			

LCS (4J11003-BS1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 21:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0		110	66-149			
PCB-1260	11		0.50	ug/L	10.0		107	64-150			

QUALITY CONTROL

Polychlorinated Biphenyls by GC - Quality Control

Batch 4J11003 - EPA 3510C

LCS (4J11003-BS1) Continued Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 21:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 2,4,5,6-TCMX	*0.88*			*ug/L*	*1.00*		*88*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.63*			*ug/L*	*1.00*		*63*	*42-159*			

Matrix Spike (4J11003-MS1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 22:00

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	10		0.50	ug/L	10.0	0.43 U	104	66-149			
PCB-1260	10		0.50	ug/L	10.0	0.45 U	100	64-150			
Surrogate: 2,4,5,6-TCMX	*0.83*			*ug/L*	*1.00*		*83*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.52*			*ug/L*	*1.00*		*52*	*42-159*			

Matrix Spike Dup (4J11003-MSD1) Prepared: 10/11/2014 12:54 Analyzed: 10/14/2014 22:13

Source: C413325-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016/1242	11		0.50	ug/L	10.0	0.43 U	109	66-149	5	21	
PCB-1260	11		0.50	ug/L	10.0	0.45 U	111	64-150	11	18	
Surrogate: 2,4,5,6-TCMX	*0.91*			*ug/L*	*1.00*		*91*	*45-151*			
Surrogate: Decachlorobiphenyl	*0.60*			*ug/L*	*1.00*		*60*	*42-159*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J14015 - EPA 7470A

Blank (4J14015-BLK1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (4J14015-BS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.54		0.200	ug/L	5.00		111	80-120			

Matrix Spike (4J14015-MS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:23

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.11		0.200	ug/L	5.00	0.170 U	122	75-125			

Matrix Spike Dup (4J14015-MSD1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:29

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.25		0.200	ug/L	5.00	0.170 U	125	75-125	2	25	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 4J14015 - EPA 7470A

Post Spike (4J14015-PS1) Prepared: 10/14/2014 09:58 Analyzed: 10/15/2014 13:32

Source: C411817-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.42		0.200	ug/L	5.00	0.0500	107	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J10015 - EPA 3005A

Blank (4J10015-BLK1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 11:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (4J10015-BS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	203		2.00	ug/L	200		102	80-120			
Selenium	213		3.00	ug/L	200		106	80-120			
Thallium	222		1.00	ug/L	200		111	80-120			

Matrix Spike (4J10015-MS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:16

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	199		2.00	ug/L	200	0.316	99	75-125			
Selenium	208		3.00	ug/L	200	0.910 U	104	75-125			
Thallium	207		1.00	ug/L	200	0.110 U	104	75-125			

Matrix Spike Dup (4J10015-MSD1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:19

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	0.316	98	75-125	1	20	
Selenium	209		3.00	ug/L	200	0.910 U	105	75-125	0.7	20	
Thallium	206		1.00	ug/L	200	0.110 U	103	75-125	0.6	20	

Post Spike (4J10015-PS1) Prepared: 10/10/2014 10:58 Analyzed: 10/13/2014 12:23

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	196		2.00	ug/L	200	0.316	98	80-120			
Selenium	201		3.00	ug/L	200	0.287	100	80-120			
Thallium	200		1.00	ug/L	200	0.0233	100	80-120			

Batch 4J13020 - EPA 3005A

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J13020 - EPA 3005A

Blank (4J13020-BLK1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 13:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.40	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.40	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.10	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	**2.42**	**J**	10.0	ug/L							
Tin	2.10	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (4J13020-BS1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 13:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	214		10.0	ug/L	200		107	80-120			
Barium	222		10.0	ug/L	200		111	80-120			
Beryllium	21.3		1.00	ug/L	20.0		107	80-120			
Cadmium	22.4		1.00	ug/L	20.0		112	80-120			
Chromium	211		10.0	ug/L	200		105	80-120			
Cobalt	221		10.0	ug/L	200		110	80-120			
Copper	207		10.0	ug/L	200		104	80-120			
Lead	219		10.0	ug/L	200		110	80-120			
Nickel	226		10.0	ug/L	200		113	80-120			
Silver	207	B	10.0	ug/L	200		104	80-120			
Tin	217		10.0	ug/L	200		109	80-120			
Vanadium	205		10.0	ug/L	200		102	80-120			
Zinc	235		10.0	ug/L	200		117	80-120			

Matrix Spike (4J13020-MS1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:00

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	205		10.0	ug/L	200	5.40 U	103	75-125			
Barium	217		10.0	ug/L	200	2.43	107	75-125			
Beryllium	20.7		1.00	ug/L	20.0	0.399	101	75-125			
Cadmium	22.2		1.00	ug/L	20.0	0.488	108	75-125			
Chromium	201		10.0	ug/L	200	1.40 U	101	75-125			
Cobalt	223		10.0	ug/L	200	9.68	107	75-125			
Copper	197		10.0	ug/L	200	1.60 U	99	75-125			
Lead	213		10.0	ug/L	200	2.10 U	106	75-125			
Nickel	220		10.0	ug/L	200	1.80 U	110	75-125			
Silver	196	B	10.0	ug/L	200	1.90 U	98	75-125			
Tin	210		10.0	ug/L	200	2.10 U	105	75-125			
Vanadium	195		10.0	ug/L	200	1.40 U	98	75-125			
Zinc	235		10.0	ug/L	200	12.4	111	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 4J13020 - EPA 3005A

Matrix Spike Dup (4J13020-MSD1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:02

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	206		10.0	ug/L	200	5.40 U	103	75-125	0.7	20	
Barium	216		10.0	ug/L	200	2.43	107	75-125	0.6	20	
Beryllium	21.7		1.00	ug/L	20.0	0.399	107	75-125	5	20	
Cadmium	21.8		1.00	ug/L	20.0	0.488	107	75-125	2	20	
Chromium	211		10.0	ug/L	200	1.40 U	106	75-125	5	20	
Cobalt	222		10.0	ug/L	200	9.68	106	75-125	0.5	20	
Copper	206		10.0	ug/L	200	1.60 U	103	75-125	5	20	
Lead	211		10.0	ug/L	200	2.10 U	105	75-125	0.9	20	
Nickel	218		10.0	ug/L	200	1.80 U	109	75-125	0.7	20	
Silver	205	B	10.0	ug/L	200	1.90 U	102	75-125	4	20	
Tin	206		10.0	ug/L	200	2.10 U	103	75-125	2	20	
Vanadium	205		10.0	ug/L	200	1.40 U	102	75-125	5	20	
Zinc	233		10.0	ug/L	200	12.4	110	75-125	1	20	

Post Spike (4J13020-PS1) Prepared: 10/13/2014 11:27 Analyzed: 10/15/2014 14:05

Source: C412438-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.198		0.0100	mg/L	0.200	-0.00584	99	80-120			
Barium	0.201		0.0100	mg/L	0.200	0.00243	99	80-120			
Beryllium	0.0199		0.00100	mg/L	0.0200	0.000399	98	80-120			
Cadmium	0.0205		0.00100	mg/L	0.0200	0.000488	100	80-120			
Chromium	0.194		0.0100	mg/L	0.200	0.000691	97	80-120			
Cobalt	0.206		0.0100	mg/L	0.200	0.00968	98	80-120			
Copper	0.190		0.0100	mg/L	0.200	4.53E-5	95	80-120			
Lead	0.196		0.0100	mg/L	0.200	0.000829	97	80-120			
Nickel	0.202		0.0100	mg/L	0.200	0.00134	101	80-120			
Silver	0.197	B	0.0100	mg/L	0.200	0.000771	98	80-120			
Tin	0.192		0.0100	mg/L	0.200	0.000822	96	80-120			
Vanadium	0.188		0.0100	mg/L	0.200	0.000265	94	80-120			
Zinc	0.217		0.0100	mg/L	0.200	0.0124	102	80-120			

Classical Chemistry Parameters - Quality Control

Batch 4J10023 - NO PREP

Blank (4J10023-BLK1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010	U	0.10	mg/L							

LCS (4J10023-BS1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.39		0.10	mg/L	0.401		96	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J10023 - NO PREP

Duplicate (4J10023-DUP1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.036	J	0.10	mg/L		0.040			11	25	

Matrix Spike (4J10023-MS1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.089	J	0.10	mg/L	0.401	0.010 U	22	80-120			QM-05

Matrix Spike Dup (4J10023-MSD1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.083	J	0.10	mg/L	0.401	0.010 U	21	80-120	8	25	QM-05

Batch 4J14006 - Same

Blank (4J14006-BLK1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

LCS (4J14006-BS1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		98	85-115			

Matrix Spike (4J14006-MS1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:30

Source: C315249-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	93	85-115			

Matrix Spike Dup (4J14006-MSD1) Prepared: 10/14/2014 10:02 Analyzed: 10/15/2014 13:32

Source: C315249-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.010	mg/L	0.150	0.0049 U	95	85-115	3	20	

Batch 4J15008 - Same

Blank (4J15008-BLK1) Prepared: 10/15/2014 10:06 Analyzed: 10/15/2014 16:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0049	U	0.010	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J15008 - Same

LCS (4J15008-BS1) Prepared: 10/15/2014 10:06 Analyzed: 10/15/2014 16:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150		101	85-115			

Matrix Spike (4J15008-MS1) Prepared: 10/15/2014 12:45 Analyzed: 10/15/2014 16:58

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150	0.0049 U	101	85-115			

Matrix Spike Dup (4J15008-MSD1) Prepared: 10/15/2014 12:45 Analyzed: 10/15/2014 17:00

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.010	mg/L	0.150	0.0049 U	98	85-115	3	20	

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J10022 - EPA 3510C

Blank (4J10022-BLK1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 14:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.28	U	0.50	ug/L							
2,4,5-TP (Silvex)	0.44	U	0.50	ug/L							
2,4-D	0.27	U	0.50	ug/L							
Dinoseb	0.32	U	0.50	ug/L							
Pentachlorophenol	0.19	U	0.50	ug/L							
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*99*	*68-139*			

LCS (4J10022-BS1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	2.0		0.50	ug/L	2.00		98	70-114			
2,4-D	2.0		0.50	ug/L	2.00		101	37-129			
Surrogate: 2,4-DCAA	*2.3*			*ug/L*	*2.00*		*115*	*68-139*			

Matrix Spike (4J10022-MS1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:27

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.8		0.50	ug/L	2.00	0.44 U	89	70-114			
2,4-D	2.0		0.50	ug/L	2.00	0.27 U	98	37-129			
Surrogate: 2,4-DCAA	*2.0*			*ug/L*	*2.00*		*101*	*68-139*			

Matrix Spike Dup (4J10022-MSD1) Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:53

Source: A405821-02

QUALITY CONTROL

Chlorinated Herbicides by GC - Quality Control

Batch 4J10022 - EPA 3510C

Matrix Spike Dup (4J10022-MSD1) Continued Prepared: 10/10/2014 14:07 Analyzed: 10/15/2014 15:53

Source: A405821-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-TP (Silvex)	1.9		0.50	ug/L	2.00	0.44 U	97	70-114	9	15	
2,4-D	2.0		0.50	ug/L	2.00	0.27 U	101	37-129	3	33	
Surrogate: 2,4-DCAA	*2.2*			*ug/L*	*2.00*		*111*	*68-139*			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill App IIs - CAS
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Gail Hay
Sampler(s) Name, Affiliation (Print): Gary Simcox / S&ME, Inc.	Billing Contact: Gail Hay
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C411817

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8081B Appendix 2	8082A Appendix 2,8151A Appendix 2,8270D Appendix 2	8260B Appendix 2	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Sn,Tl,V,Zn	Cyanide Total 9014	Hg	Sulfide SM4500-S D				Sample Comments
	4103-SMW4	10/7/14	1545	G	GW	9	X	X	X	X	X	X	X				
	4103-SMW1	10/7/14	1135	G	GW	9	X	X	X	X	X	X	X				
	4103-SMW3	10/7/14	1340	G	GW	9	X	X	X	X	X	X	X				
	4103-II3B	10/7/14	0925	G	GW	9	X	X	X	X	X	X	X				
	4103-II9	10/6/14	1710	G	GW	9	X	X	X	X	X	X	X				

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time 10/8/14	Received By	Date/Time 10/8/14 11:30
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-624 1.9°c C-3660 1.7°c		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Thursday, October 23, 2014

City of Greensboro (CI034)

Attn: Gail Hay

2503 White Street

Greensboro, NC 27405

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill MNA
ENCO Workorder(s): C411821

Dear Gail Hay,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, October 8, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 28.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103-II1 | Lab ID: C411821-01 | Sampled: 10/06/14 15:05 | Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/03/14	10/09/14 09:05	10/9/2014 16:45
EPA 310.2	10/20/14	10/15/14 07:56	10/15/2014 10:21
EPA 353.2	07/01/17	10/21/14 15:14	10/21/2014 15:18
RSK-175	10/20/14	10/09/14 16:40	10/10/2014 14:08
SM 4500S2 D-2000	10/13/14	10/10/14 13:00	10/10/2014 13:24
SM 5310B-2000	11/03/14	10/13/14 11:22	10/13/2014 14:20
VGC-13	10/20/14	10/16/14 09:55	10/16/2014 17:45

Client ID: 4103-II1 | Lab ID: C411821-01RE1 | Sampled: 10/06/14 15:05 | Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/03/14	10/09/14 09:05	10/9/2014 17:36
RSK-175	10/20/14	10/09/14 16:40	10/10/2014 15:12

Client ID: 4103-II1 | Lab ID: C411821-01RE2 | Sampled: 10/06/14 15:05 | Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	10/20/14	10/09/14 16:40	10/10/2014 16:00

Client ID: 4103-II9 | Lab ID: C411821-02 | Sampled: 10/06/14 17:10 | Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/03/14	10/09/14 09:05	10/9/2014 18:27
EPA 353.2	07/01/17	10/21/14 15:14	10/21/2014 15:18
RSK-175	10/20/14	10/09/14 16:40	10/10/2014 14:24
SM 4500S2 D-2000	10/13/14	10/10/14 13:00	10/10/2014 13:24
SM 5310B-2000	11/03/14	10/13/14 11:22	10/13/2014 14:20
VGC-13	10/20/14	10/16/14 09:55	10/16/2014 18:33

Client ID: 4103-II9 | Lab ID: C411821-02RE1 | Sampled: 10/06/14 17:10 | Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 310.2	10/20/14	10/15/14 07:56	10/15/2014 11:38
RSK-175	10/20/14	10/09/14 16:40	10/10/2014 15:44

Client ID: 4103-SMW3 | Lab ID: C411821-03 | Sampled: 10/07/14 13:40 | Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/04/14	10/09/14 09:05	10/9/2014 18:44
EPA 310.2	10/21/14	10/15/14 07:56	10/15/2014 10:23
EPA 353.2	07/02/17	10/21/14 15:14	10/21/2014 15:18
RSK-175	10/21/14	10/09/14 16:40	10/10/2014 14:40
SM 4500S2 D-2000	10/14/14	10/10/14 13:00	10/10/2014 13:24
SM 5310B-2000	11/04/14	10/13/14 11:22	10/13/2014 14:20
VGC-13	10/21/14	10/16/14 09:55	10/16/2014 19:22

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Client ID: 4103-SMW3	Lab ID: C411821-03RE1	Sampled: 10/07/14 13:40	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
RSK-175	10/21/14	10/09/14 16:40	10/10/2014 15:28

Client ID: 4103-MW14	Lab ID: C411821-04	Sampled: 10/06/14 11:20	Received: 10/08/14 11:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/03/14	10/09/14 09:05	10/9/2014 19:01
EPA 310.2	10/20/14	10/15/14 07:56	10/15/2014 10:23
EPA 353.2	07/01/17	10/16/14 10:56	10/16/2014 15:12
RSK-175	10/20/14	10/09/14 16:40	10/10/2014 14:56
SM 4500S2 D-2000	10/13/14	10/10/14 13:00	10/10/2014 13:24
SM 5310B-2000	11/03/14	10/13/14 11:22	10/13/2014 14:20
VGC-13	10/20/14	10/16/14 09:55	10/16/2014 20:11

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103-II1 **Lab ID: C411821-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetic Acid	65		1	0.031	0.070	NE	mg/L	VGC-13	
Nitrate as N	54	J	1	25	100	10000	ug/L	EPA 353.2	
Sulfate as SO4	14000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	830000	D	5	70000	75000	NE	ug/L	EPA 310.2	
Total Organic Carbon	48000		1	320	1000	NE	ug/L	SM 5310B-2000	

Client ID: 4103-II1 **Lab ID: C411821-01RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	560000	D	10	22000	50000	NE	ug/L	EPA 300.0	
Methane	211	D	5	2.20	5.00	NE	ug/L	RSK-175	

Client ID: 4103-II1 **Lab ID: C411821-01RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	714000	D	10	2100	25000	NE	ug/L	RSK-175	

Client ID: 4103-II9 **Lab ID: C411821-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetic Acid	0.088		1	0.031	0.070	NE	mg/L	VGC-13	
Chloride	14000		1	2200	5000	NE	ug/L	EPA 300.0	
Methane	22.6		1	0.440	1.00	NE	ug/L	RSK-175	
Sulfate as SO4	12000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Total Organic Carbon	4900		1	320	1000	NE	ug/L	SM 5310B-2000	

Client ID: 4103-II9 **Lab ID: C411821-02RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	500000	D	5	1050	12500	NE	ug/L	RSK-175	
Total Alkalinity as CaCO3	420000	D	5	70000	75000	NE	ug/L	EPA 310.2	

Client ID: 4103-SMW3 **Lab ID: C411821-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	9000		1	2200	5000	NE	ug/L	EPA 300.0	
Sulfate as SO4	22000	J	1	2900	5000	250000	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	310000	D	2	28000	30000	NE	ug/L	EPA 310.2	
Total Organic Carbon	1500		1	320	1000	NE	ug/L	SM 5310B-2000	

Client ID: 4103-SMW3 **Lab ID: C411821-03RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	247000	D	5	1050	12500	NE	ug/L	RSK-175	
Methane	96.8	D	5	2.20	5.00	NE	ug/L	RSK-175	

Client ID: 4103-MW14 **Lab ID: C411821-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Carbon dioxide	150000		1	210	2500	NE	ug/L	RSK-175	
Chloride	3100	J	1	2200	5000	NE	ug/L	EPA 300.0	
Total Alkalinity as CaCO3	24000		1	14000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	510	J	1	320	1000	NE	ug/L	SM 5310B-2000	

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ANALYTICAL RESULTS

Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-01
Sampled: 10/06/14 15:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**560000**	D	ug/L	10	22000	50000	NE	EPA 300.0	10/09/14 17:36	CV	
Nitrate as N [14797-55-8] ^	**54**	J	ug/L	1	25	100	10000	EPA 353.2	10/21/14 15:18	CV	
Sulfate as SO4 [14808-79-8] ^	**14000**	J	ug/L	1	2900	5000	250000	EPA 300.0	10/09/14 16:45	CV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**830000**	D	ug/L	5	70000	75000	NE	EPA 310.2	10/15/14 10:21	c1v	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-01
Sampled: 10/06/14 15:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon	**48000**		ug/L	1	320	1000	NE	SM 5310B-2000	10/13/14 14:20	RSA	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-01
Sampled: 10/06/14 15:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**714000**	D	ug/L	10	2100	25000	NE	RSK-175	10/10/14 16:00	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/10/14 14:08	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/10/14 14:08	LTS	
Methane [74-82-8]	**211**	D	ug/L	5	2.20	5.00	NE	RSK-175	10/10/14 15:12	LTS	

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Description: 4103-II1
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-01
Sampled: 10/06/14 15:05
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	**65**		mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 17:45	JWJ	
Butyric Acid [107-92-6]	0.031	U	mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 17:45	JWJ	
Hexanoic Acid [142-62-1]	0.078	U	mg/L	1	0.078	0.10		VGC-13	10/16/14 17:45	JWJ	QV-01
iso-Hexanoic Acid [646-07-1]	0.080	U	mg/L	1	0.080	0.10		VGC-13	10/16/14 17:45	JWJ	
iso-Pentanoic Acid [503-74-2]	0.043	U	mg/L	1	0.043	0.070		VGC-13	10/16/14 17:45	JWJ	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	0.095	U	mg/L	1	0.095	0.14		VGC-13	10/16/14 17:45	JWJ	
Pentanoic Acid [109-52-4]	**2.4**		mg/L	1	0.052	0.070		VGC-13	10/16/14 17:45	JWJ	
Propionic Acid [79-09-4]	0.063	U	mg/L	1	0.063	0.070	NE	VGC-13	10/16/14 17:45	JWJ	
Pyruvic Acid [127-17-3]	0.010	U	mg/L	1	0.010	0.070	NE	VGC-13	10/16/14 17:45	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21*	*1*	*20.0*	*107 %*	*80-136*	*4J16004*	*VGC-13*	*10/16/14 17:45*	*JWJ*	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-02
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**14000**		ug/L	1	2200	5000	NE	EPA 300.0	10/09/14 18:27	CV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	10/21/14 15:18	CV	
Sulfate as SO4 [14808-79-8] ^	**12000**	J	ug/L	1	2900	5000	250000	EPA 300.0	10/09/14 18:27	CV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**420000**	D	ug/L	5	70000	75000	NE	EPA 310.2	10/15/14 11:38	c1v	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-02
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon	**4900**		ug/L	1	320	1000	NE	SM 5310B-2000	10/13/14 14:20	RSA	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-02
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**500000**	D	ug/L	5	1050	12500	NE	RSK-175	10/10/14 15:44	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/10/14 14:24	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/10/14 14:24	LTS	
Methane [74-82-8]	**22.6**		ug/L	1	0.440	1.00	NE	RSK-175	10/10/14 14:24	LTS	

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Description: 4103-II9
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-02
Sampled: 10/06/14 17:10
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	**0.088**		mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 18:33	JWJ	
Butyric Acid [107-92-6]	0.031	U	mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 18:33	JWJ	
Hexanoic Acid [142-62-1]	0.078	U	mg/L	1	0.078	0.10		VGC-13	10/16/14 18:33	JWJ	QV-01
iso-Hexanoic Acid [646-07-1]	0.080	U	mg/L	1	0.080	0.10		VGC-13	10/16/14 18:33	JWJ	
iso-Pentanoic Acid [503-74-2]	0.043	U	mg/L	1	0.043	0.070		VGC-13	10/16/14 18:33	JWJ	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	0.095	U	mg/L	1	0.095	0.14		VGC-13	10/16/14 18:33	JWJ	
Pentanoic Acid [109-52-4]	0.052	U	mg/L	1	0.052	0.070		VGC-13	10/16/14 18:33	JWJ	
Propionic Acid [79-09-4]	0.063	U	mg/L	1	0.063	0.070	NE	VGC-13	10/16/14 18:33	JWJ	
Pyruvic Acid [127-17-3]	0.010	U	mg/L	1	0.010	0.070	NE	VGC-13	10/16/14 18:33	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*22*	*1*	*20.0*	*108 %*	*80-136*	*4J16004*	*VGC-13*	*10/16/14 18:33*	*JWJ*	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-03
Sampled: 10/07/14 13:40
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**9000**		ug/L	1	2200	5000	NE	EPA 300.0	10/09/14 18:44	CV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	10/21/14 15:18	CV	
Sulfate as SO4 [14808-79-8] ^	**22000**	J	ug/L	1	2900	5000	250000	EPA 300.0	10/09/14 18:44	CV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**310000**	D	ug/L	2	28000	30000	NE	EPA 310.2	10/15/14 10:23	c1v	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-03
Sampled: 10/07/14 13:40
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon	**1500**		ug/L	1	320	1000	NE	SM 5310B-2000	10/13/14 14:20	RSA	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-03
Sampled: 10/07/14 13:40
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**247000**	D	ug/L	5	1050	12500	NE	RSK-175	10/10/14 15:28	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/10/14 14:40	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/10/14 14:40	LTS	
Methane [74-82-8]	**96.8**	D	ug/L	5	2.20	5.00	NE	RSK-175	10/10/14 15:28	LTS	

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Description: 4103-SMW3
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-03
Sampled: 10/07/14 13:40
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.031	U	mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 19:22	JWJ	
Butyric Acid [107-92-6]	0.031	U	mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 19:22	JWJ	
Hexanoic Acid [142-62-1]	0.078	U	mg/L	1	0.078	0.10		VGC-13	10/16/14 19:22	JWJ	QV-01
iso-Hexanoic Acid [646-07-1]	0.080	U	mg/L	1	0.080	0.10		VGC-13	10/16/14 19:22	JWJ	
iso-Pentanoic Acid [503-74-2]	0.043	U	mg/L	1	0.043	0.070		VGC-13	10/16/14 19:22	JWJ	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	0.095	U	mg/L	1	0.095	0.14		VGC-13	10/16/14 19:22	JWJ	
Pentanoic Acid [109-52-4]	0.052	U	mg/L	1	0.052	0.070		VGC-13	10/16/14 19:22	JWJ	
Propionic Acid [79-09-4]	0.063	U	mg/L	1	0.063	0.070	NE	VGC-13	10/16/14 19:22	JWJ	
Pyruvic Acid [127-17-3]	0.010	U	mg/L	1	0.010	0.070	NE	VGC-13	10/16/14 19:22	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21*	*1*	*20.0*	*106 %*	*80-136*	*4J16004*	*VGC-13*	*10/16/14 19:22*	*JWJ*	

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Description: 4103-MW14 | **Lab Sample ID:** C411821-04 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C411821

Project: White Street Landfill MNA | **Sampled By:** Gary Simcox

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] ^	**3100**	J	ug/L	1	2200	5000	NE	EPA 300.0	10/09/14 19:01	CV	
Nitrate as N [14797-55-8] ^	25	U	ug/L	1	25	100	10000	EPA 353.2	10/16/14 15:12	CV	
Sulfate as SO4 [14808-79-8] ^	2900	U	ug/L	1	2900	5000	250000	EPA 300.0	10/09/14 19:01	CV	
Sulfide [18496-25-8] ^	10	U	ug/L	1	10	100	1000	SM 4500S2 D-2000	10/10/14 13:24	JOC	
Total Alkalinity as CaCO3 [471-34-1] ^	**24000**		ug/L	1	14000	15000	NE	EPA 310.2	10/15/14 10:23	c1v	

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Description: 4103-MW14
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-04
Sampled: 10/06/14 11:20
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon	**510**	J	ug/L	1	320	1000	NE	SM 5310B-2000	10/13/14 14:20	RSA	

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Description: 4103-MW14
Matrix: Ground Water
Project: White Street Landfill MNA

Lab Sample ID: C411821-04
Sampled: 10/06/14 11:20
Sampled By: Gary Simcox

Received: 10/08/14 11:30
Work Order: C411821

Dissolved Gases by GC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Carbon dioxide [124-38-9]	**150000**		ug/L	1	210	2500	NE	RSK-175	10/10/14 14:56	LTS	
Ethane [74-84-0]	0.470	U	ug/L	1	0.470	2.00	NE	RSK-175	10/10/14 14:56	LTS	
Ethene [74-85-1]	0.620	U	ug/L	1	0.620	3.00	NE	RSK-175	10/10/14 14:56	LTS	
Methane [74-82-8]	0.440	U	ug/L	1	0.440	1.00	NE	RSK-175	10/10/14 14:56	LTS	

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Description: 4103-MW14 | **Lab Sample ID:** C411821-04 | **Received:** 10/08/14 11:30

Matrix: Ground Water | **Sampled:** 10/06/14 11:20 | **Work Order:** C411821

Project: White Street Landfill MNA | **Sampled By:** Gary Simcox

Volatile Fatty Acids by HPLC

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Acetic Acid [64-19-7]	0.031	U	mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 20:11	JWJ	
Butyric Acid [107-92-6]	0.031	U	mg/L	1	0.031	0.070	NE	VGC-13	10/16/14 20:11	JWJ	
Hexanoic Acid [142-62-1]	0.078	U	mg/L	1	0.078	0.10		VGC-13	10/16/14 20:11	JWJ	QV-01
iso-Hexanoic Acid [646-07-1]	0.080	U	mg/L	1	0.080	0.10		VGC-13	10/16/14 20:11	JWJ	
iso-Pentanoic Acid [503-74-2]	0.043	U	mg/L	1	0.043	0.070		VGC-13	10/16/14 20:11	JWJ	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid) [50-21-5/594-61-6]	0.095	U	mg/L	1	0.095	0.14		VGC-13	10/16/14 20:11	JWJ	
Pentanoic Acid [109-52-4]	0.052	U	mg/L	1	0.052	0.070		VGC-13	10/16/14 20:11	JWJ	
Propionic Acid [79-09-4]	0.063	U	mg/L	1	0.063	0.070	NE	VGC-13	10/16/14 20:11	JWJ	
Pyruvic Acid [127-17-3]	0.010	U	mg/L	1	0.010	0.070	NE	VGC-13	10/16/14 20:11	JWJ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Trimethylacetic acid	*21*	*1*	*20.0*	*106 %*	*80-136*	*4J16004*	*VGC-13*	*10/16/14 20:11*	*JWJ*	

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J08029 - NO PREP

LCS (4J08029-BS1) Prepared: 10/08/2014 13:23 Analyzed: 10/08/2014 13:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.94		0.10	mg/L	1.00		94	90-110			

LCS (4J08029-BS2) Prepared & Analyzed: 10/08/2014 13:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.96		0.10	mg/L	1.00		96	90-110			

LCS (4J08029-BS3) Prepared: 10/08/2014 15:06 Analyzed: 10/08/2014 15:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.96		0.10	mg/L	1.00		96	90-110			

LCS (4J08029-BS4) Prepared: 10/08/2014 15:56 Analyzed: 10/08/2014 15:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.95		0.10	mg/L	1.00		95	90-110			

Matrix Spike (4J08029-MS1) Prepared: 10/08/2014 13:27 Analyzed: 10/08/2014 13:27

Source: C411821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	850		100	ug/L	1000	17 U	85	90-110			QM-05

Matrix Spike Dup (4J08029-MSD1) Prepared: 10/08/2014 13:28 Analyzed: 10/08/2014 13:28

Source: C411821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	850		100	ug/L	1000	17 U	85	90-110	0.6	10	QM-05

Batch 4J09008 - NO PREP

Blank (4J09008-BLK1) Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 13:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2200	U	5000	ug/L							
Sulfate as SO4	2900	U	5000	ug/L							

LCS (4J09008-BS1) Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 14:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48000		5000	ug/L	50000		95	90-110			
Sulfate as SO4	47000		5000	ug/L	50000		94	90-110			

Matrix Spike (4J09008-MS1) Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 15:20

Source: C412582-02

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J09008 - NO PREP

Matrix Spike (4J09008-MS1) Continued Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 15:20

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	52000		5000	ug/L	20000	32000	99	90-110			

Matrix Spike (4J09008-MS2) Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 16:11

Source: C412582-02RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	340000		50000	ug/L	200000	140000	98	90-110			

Matrix Spike Dup (4J09008-MSD1) Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 15:37

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	52000		5000	ug/L	20000	32000	100	90-110	0.4	10	

Matrix Spike Dup (4J09008-MSD2) Prepared: 10/09/2014 09:05 Analyzed: 10/09/2014 16:28

Source: C412582-02RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	340000		50000	ug/L	200000	140000	98	90-110	0.0006	10	

Batch 4J10023 - NO PREP

Blank (4J10023-BLK1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	10	U	100	ug/L							

LCS (4J10023-BS1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.39		0.10	mg/L	0.401		96	80-120			

Duplicate (4J10023-DUP1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	36	J	100	ug/L		40			11	25	

Matrix Spike (4J10023-MS1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	89	J	100	ug/L	401	10 U	22	80-120			QM-05

Matrix Spike Dup (4J10023-MSD1) Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J10023 - NO PREP

Matrix Spike Dup (4J10023-MSD1) Continued Prepared: 10/10/2014 13:00 Analyzed: 10/10/2014 13:24

Source: C411817-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	83	J	100	ug/L	401	10 U	21	80-120	8	25	QM-05

Batch 4J14002 - NO PREP

LCS (4J14002-BS1) Prepared: 10/14/2014 07:29 Analyzed: 10/14/2014 10:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		100	90-110			

Matrix Spike (4J14002-MS1) Prepared: 10/14/2014 07:29 Analyzed: 10/14/2014 11:03

Source: C409789-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1400		100	ug/L	513	870	100	90-110			

Matrix Spike Dup (4J14002-MSD1) Prepared: 10/14/2014 07:29 Analyzed: 10/14/2014 11:05

Source: C409789-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1300		100	ug/L	513	870	94	90-110	3	10	

Batch 4J15002 - NO PREP

Blank (4J15002-BLK1) Prepared: 10/15/2014 07:56 Analyzed: 10/15/2014 10:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	14000	U	15000	ug/L							

LCS (4J15002-BS1) Prepared: 10/15/2014 07:56 Analyzed: 10/15/2014 10:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	97		15	mg/L	100		97	80-120			

Matrix Spike (4J15002-MS1) Prepared: 10/15/2014 07:56 Analyzed: 10/15/2014 10:19

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	810000		75000	ug/L	200000	610000	97	80-120			

Matrix Spike Dup (4J15002-MSD1) Prepared: 10/15/2014 07:56 Analyzed: 10/15/2014 10:20

Source: C412582-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity as CaCO3	780000		75000	ug/L	200000	610000	83	80-120	4	25	

QUALITY CONTROL

Dissolved Gases by GC - Quality Control

Batch 4J09018 - Same

Blank (4J09018-BLK1) Prepared: 10/09/2014 16:40 Analyzed: 10/10/2014 12:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	210	U	2500	ug/L							
Ethane	0.470	U	2.00	ug/L							
Ethene	0.620	U	3.00	ug/L							
Methane	0.440	U	1.00	ug/L							

LCS (4J09018-BS1) Prepared: 10/09/2014 16:40 Analyzed: 10/10/2014 12:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	47400		2.50	mg/L	50400		94	80-120			
Ethane	509		0.00200	mg/L	500		102	80-120			
Ethene	526		0.00300	mg/L	500		105	80-120			
Methane	531		0.00100	mg/L	500		106	80-120			

LCS Dup (4J09018-BSD1) Prepared: 10/09/2014 16:40 Analyzed: 10/10/2014 12:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	50200		2.50	mg/L	50400		100	80-120	6	25	
Ethane	532		0.00200	mg/L	500		106	80-120	4	25	
Ethene	528		0.00300	mg/L	500		106	80-120	0.5	25	
Methane	526		0.00100	mg/L	500		105	80-120	0.9	25	

Duplicate (4J09018-DUP1) Prepared: 10/09/2014 16:40 Analyzed: 10/10/2014 13:24

Source: B404520-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon dioxide	1100000		2500	ug/L		1100000			0	25	
Ethane	0.470	U	2.00	ug/L		0.470 U				25	
Ethene	0.620	U	3.00	ug/L		0.620 U				25	
Methane	1310		1.00	ug/L		1310			0	25	

Volatile Fatty Acids by HPLC - Quality Control

Batch 4J16004 - NO PREP

Blank (4J16004-BLK1) Prepared: 10/16/2014 09:55 Analyzed: 10/16/2014 11:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	0.031	U	0.070	mg/L							
Butyric Acid	0.031	U	0.070	mg/L							
Hexanoic Acid	0.078	U	0.10	mg/L							
iso-Hexanoic Acid	0.080	U	0.10	mg/L							
iso-Pentanoic Acid	0.043	U	0.070	mg/L							
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	0.095	U	0.14	mg/L							
Pentanoic Acid	0.052	U	0.070	mg/L							
Propionic Acid	0.063	U	0.070	mg/L							
Pyruvic Acid	0.010	U	0.070	mg/L							
Surrogate: Trimethylacetic acid	*21*			*mg/L*	*20.0*		*107*	*80-136*			

QUALITY CONTROL

Volatile Fatty Acids by HPLC - Quality Control

Batch 4J16004 - NO PREP

LCS (4J16004-BS1) Prepared: 10/16/2014 09:55 Analyzed: 10/16/2014 11:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	19		0.070	mg/L	20.0		94	80-120			
Butyric Acid	18		0.070	mg/L	20.0		88	75-120			
Hexanoic Acid	26		0.10	mg/L	20.0		128	80-180			
iso-Hexanoic Acid	25		0.10	mg/L	20.0		126	80-152			
iso-Pentanoic Acid	22		0.070	mg/L	20.0		110	80-123			
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	38		0.14	mg/L	40.0		94	80-120			
Pentanoic Acid	20		0.070	mg/L	20.0		102	80-124			
Propionic Acid	18		0.070	mg/L	20.0		91	80-120			
Pyruvic Acid	15		0.070	mg/L	20.0		73	54-120			
Surrogate: Trimethylacetic acid	*23*			*mg/L*	*20.0*		*113*	*80-136*			

Matrix Spike (4J16004-MS1) Prepared: 10/16/2014 09:55 Analyzed: 10/16/2014 16:08

Source: C411821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	82		0.070	mg/L	21.1	65	82	80-120			
Butyric Acid	14		0.070	mg/L	21.1	0.031 U	65	75-120			QM-07
Hexanoic Acid	27		0.10	mg/L	21.1	0.078 U	129	80-180			
iso-Hexanoic Acid	26		0.10	mg/L	21.1	0.080 U	122	80-152			
iso-Pentanoic Acid	17		0.070	mg/L	21.1	0.043 U	80	80-123			
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	47		0.14	mg/L	42.1	0.095 U	112	80-120			
Pentanoic Acid	21		0.070	mg/L	21.1	2.4	87	80-124			
Propionic Acid	14		0.070	mg/L	21.1	0.063 U	67	80-120			QM-07
Pyruvic Acid	13		0.070	mg/L	21.1	0.010 U	61	54-120			
Surrogate: Trimethylacetic acid	*19*			*mg/L*	*21.1*		*92*	*80-136*			

Matrix Spike Dup (4J16004-MSD1) Prepared: 10/16/2014 09:55 Analyzed: 10/16/2014 16:56

Source: C411821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetic Acid	83		0.070	mg/L	21.1	65	83	80-120	0.3	25	
Butyric Acid	14		0.070	mg/L	21.1	0.031 U	65	75-120	1	25	QM-07
Hexanoic Acid	28		0.10	mg/L	21.1	0.078 U	134	80-180	4	25	
iso-Hexanoic Acid	27		0.10	mg/L	21.1	0.080 U	127	80-152	4	25	
iso-Pentanoic Acid	17		0.070	mg/L	21.1	0.043 U	83	80-123	3	25	
Lactic Acid/HIBA (2-Hydroxyisobutyric Acid)	48		0.14	mg/L	42.1	0.095 U	115	80-120	2	25	
Pentanoic Acid	21		0.070	mg/L	21.1	2.4	91	80-124	3	25	
Propionic Acid	12		0.070	mg/L	21.1	0.063 U	58	80-120	15	25	QM-07
Pyruvic Acid	16		0.070	mg/L	21.1	0.010 U	76	54-120	21	25	
Surrogate: Trimethylacetic acid	*20*			*mg/L*	*21.1*		*93*	*80-136*			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J13018 - NO PREP

Blank (4J13018-BLK1) Prepared: 10/13/2014 11:22 Analyzed: 10/13/2014 14:20

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 4J13018 - NO PREP

Blank (4J13018-BLK1) Continued Prepared: 10/13/2014 11:22 Analyzed: 10/13/2014 14:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	320	U	1000	ug/L							

LCS (4J13018-BS1) Prepared: 10/13/2014 11:22 Analyzed: 10/13/2014 14:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	41000		1000	ug/L	40000		101	85-115			

Matrix Spike (4J13018-MS1) Prepared: 10/13/2014 11:22 Analyzed: 10/13/2014 14:20

Source: C411821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	90000		1000	ug/L	40000	48000	107	85-115			

Matrix Spike Dup (4J13018-MSD1) Prepared: 10/13/2014 11:22 Analyzed: 10/13/2014 14:20

Source: C411821-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	84000		1000	ug/L	40000	48000	90	85-115	8	21	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: City of Greensboro (CI034)	Project Number: [none]
Address: 2503 White Street	Project Name/Desc: White Street Landfill MNA
City/ST/Zip: Greensboro, NC 27405	PO # / Billing Info:
Tel: (336) 373-4188 / Fax:	Reporting Contact: Gail Hay
Sampler(s) Name, Affiliation (Print): Gary Simcox / S&ME, Inc.	Billing Contact: Gail Hay
Sampler(s) Signature:	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C411821

Requested Analyses

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Alkalinity 310.2,Chloride 300,Nitrite as N 353.2	Fatty Acids	Nitrate Calc 353.2	NOX 353.2	RSK 175 + CO2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310B			Sample Comments
	4103-II1	10/4/14	1505	G	GW	11	X	X	X	X	X	X	X	X			
	4103-II9	10/4/14	1710	G	GW	11	X	X	X	X	X	X	X	X			
	4103-SMW3	10/7/14	1340	G	GW	11	X	X	X	X	X	X	X	X			
	4103-MW14	10/4/14	1120	G	GW	11	X	X	X	X	X	X	X	X			

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
			10/8/14		10-8-14 1130
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-610 2.0°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist