ASSESSMENT REPORT
FOR
JANUARY 2009 LEACHATE RELEASE

LINCOLN COUNTY LANDFILL
PERMIT NO. 55-03
CROUSE, NORTH CAROLINA

S&ME Project No. 1356-09-006

Prepared for:

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
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January 12, 2010

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NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Ms. Jaclynne Drummond
Compliance Hydrogeologist

Reference: **Assessment Report**
for January 2009 Leachate Release
Lincoln County Landfill, Permit No. 55-03
Crouse, North Carolina
S&ME Project No. 1356-03-255B

Dear Ms. Drummond:

The enclosed is an Assessment Report for the January 2009 leachate release at the Lincoln County Landfill. This report is in response to Action #3 requested in the Facility Compliance Audit Report dated January 21, 2009 to Lincoln County. As per your request, S&ME has prepared this assessment report to evaluate the extent of impact on-site from the January 2009 leachate release. If you should have any questions or need additional information please contact us at (704)-523-4726.

Respectfully submitted,

S&ME, Inc.

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cc: Nancy Rickard, Lincoln County (1 copy)

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1. INTRODUCTION/BACKGROUND

Lincoln County Landfill experienced a leachate release that occurred over the weekend leading up to Monday, January 19, 2009. On the morning of January 19, 2009, Lincoln County Landfill operations personnel returned to work and discovered that leachate levels in two above ground leachate storage tanks dropped noticeably. The leachate release was from an above ground pipe which froze and burst due to a heat trace failure.

Lincoln County personnel responded immediately by stopping the leachate flow from the leachate storage tanks by closing a valve in the secondary containment area. However, leachate had left the secondary containment area through a storm water sump, which was left open, traveled through a storm water channel, and into a nearby sediment trap. Apparent fluid flow was observed from the sediment trap into a lowland area on-site. The area of the release in relationship to the landfill facility is identified on ***Drawing 1 of 2, Site Map.***

On Monday, January 19, 2009, Lincoln County personnel pumped fluid from the sediment trap and the lowland area, and into the above ground storage tanks. The fluid was substantially removed from the sediment trap by Monday afternoon. Lincoln County personnel continued pumping from the lowland area until Wednesday, January 21, 2009, when leachate tank levels were returned to the approximate pre-release levels. It is estimated that approximately 78,000 gallons were released from each tank, for a total of 156,000 gallons, and approximately 171,000 gallons of fluid were removed from the sediment basin and lowlands area.

Surface water samples were collected on Monday January 19 and Tuesday January 20, 2009 from the lowlands area. At the request of the Division of Waste Management, S&ME collected additional surface water and soil samples on Friday January 23, 2009. Locations and results of the initial samples collected on-site are discussed further in Sections 2 and 5.

In response to the leachate release, NCDENR issued a Facility Compliance Audit Report dated January 21, 2009 to Lincoln County. Action #3 of the audit report requested that an assessment plan be prepared to evaluate the extent of soil, surface water, and groundwater impact on-site from the leachate release. S&ME prepared an Assessment Plan dated February 26, 2009. NCDENR approved the plan on March 6, 2009 via a letter titled “Leachate Release Assessment”.

As part of the approved Assessment Plan, S&ME performed a GPS delineation of the potentially impacted areas on-site and prepared a Proposed Sample Location Plan for NCDENR approval. NCDENR approved the Proposed Sample Location Plan on June 26, 2009 via a letter titled “Proposed Sample Location Plan for the January 2009 Leachate Release”. The following report details our findings, conclusions, and recommendations related to the January 2009 leachate release.

2. INITIAL SOIL AND SURFACE WATER SAMPLES

As mentioned previously, surface water samples and soil samples were collected following the leachate release on January 19, 20, and 23, 2009. Sample locations were approximated in the field utilizing a global positioning system (GPS) and have been placed on a site aerial map included with this plan as ***Drawing 2 of 2, Sample Locations***.

2.1 Soil Samples

Seven (7) soil samples were collected in the areas where an apparent leachate release would have flowed. Soil samples were collected at ground surface utilizing a field cleaned trowel.

Soil samples soil-1 and soil-2 were collected in the storm water conveyance leading from the secondary containment storm water discharge to sediment trap ST-2. Soil sample soil-3 was collected within sediment trap ST-2 and soil sample soil-4 was collected from the storm water conveyance leading from sediment trap ST-2 to its discharge location on-site. Soil samples soil-5, soil-6, and soil-7 were collected at peripheral locations of the lowland area.

Soil samples were analyzed for Appendix I volatile organics and metals, as well as nitrate-nitrite (soluble), phosphorus, sulfate (soluble), percent solids, and pH. The results of which are included in ***Table 1, Soil Analytical Results***. The results of the sample analysis are discussed in Section 5.

2.2 Surface Water Samples

Five (5) surface water samples were collected from the lowland area that may have received water from the leachate release. One (1) surface water sample was collected up-gradient of the release, and one (1) sample was collected downstream of the landfill. Surface water samples were collected by directly dipping laboratory provided containers into the surface water.

Surface water sample SW-1 was collected up-gradient of the leachate release from an unnamed tributary to Indian Creek located northwest of the leachate tanks. Surface water sample SW-2 was collected from a small unnamed tributary to Indian Creek, southwest of the leachate release. Surface water sample SW-3 was collected in Indian Creek down-stream of the property at Shoal Road. Surface water samples SW-4 and SW-5, and the sample identified as “Leachate” were collected in the lowlands area where ponding of water was observed. The surface water sample identified as “Discharge” was collected in an unnamed tributary to Indian Creek south of the leachate release.

Surface water samples were analyzed for Appendix I volatile organics and metals, as well as biological oxygen demand (BOD), chemical oxygen demand (COD), nitrate-nitrite, phosphorus, sulfate, and total suspended solids (TSS). The results of which are included in ***Table 2, Surface Water Analytical Results***. The results of the sample analysis are discussed in Section 5.

3. GPS DELINEATION OF POTENTIALLY IMPACTED AREAS

To aid in the delineation of potentially impacted areas on-site, S&ME visually observed the area southwest (down-gradient) of the leachate tanks and delineated the extent of ponding in the lowlands area on March 31, 2009. S&ME also identified the inflow and outflow features of the lowlands and its ultimate discharge point at Indian Creek. These areas are identified on ***Drawing 2 of 2, Sample Locations.*** Photographs of the on-site features taken during the GPS delineation are provided in ***Appendix I*** and their locations identified on ***Drawing 2 of 2***.

To further aid in the delineation of potentially impacted areas on site, S&ME contracted Spatial Data Consultants to perform an aerial survey of the area providing 1-foot contour intervals and an updated aerial photograph. The aerial survey is provided on ***Drawing 2 of 2, Sample Locations.***

Following the GPS delineation, S&ME selected additional soil and surface water sample locations within and surrounding the release area and prepared a Proposed Sample Location Plan for NCDENR approval. NCDENR approved the Proposed Sample Location Plan on June 26, 2009 via a letter titled "Proposed Sample Location Plan for the January 2009 Leachate Release".

4. ADDITIONAL SOIL AND SURFACE WATER SAMPLES

Following NCDENR approval of the Proposed Sample Location Plan, S&ME collected the following additional soil and surface water samples on July 7 and 8, 2009:

4.1 Additional Soil Samples

To further evaluate potential on-site soil impact in the vicinity of the leachate release, S&ME collected four (4) additional surface soil samples down gradient of the spill. The samples are identified on ***Drawing 2 of 2*** as soil-10, soil-15, soil-16, and soil-17.

S&ME also collected six (6) surface background soil samples outside the vicinity of the release to characterize the baseline concentrations of the on-site soils. Four (4) of the six (6) samples were collected as close as practical to the spill area in lithology similar to that of the soils which may have come in contact with leachate. These four (4) samples are identified as soil-11, soil-12, soil-13, and soil-14 on ***Drawing 2 of 2***.

One (1) of the six (6) background samples was collected from the initial sample location for soil-7. Based on the GPS survey, soil-7 is located up-gradient of the spill area; however, its initial analytical results yielded trace amounts of acetone and methyl ethyl ketone (MEK). S&ME re-sampled from this area to confirm the sample analysis to help rule out possible field or laboratory contaminants.

One (1) of the six (6) background soil samples was collected from sediment trap SB-1 outside of the release area to characterize background metals concentrations that may be typical of sediment from this area of the property. This soil sample is identified as soil-8 on ***Drawing 2 of 2***.

Within sediment trap ST-2, S&ME was to perform a 5-foot hand auger boring and collect soil samples at approximate 1-foot intervals to characterize the vertical extent of leachate migration in the soil. However, hand auger refusal was achieved at approximately 2.5 feet below land surface. Also, prior to soil sampling, Lincoln County removed approximately 1-foot of surface soil within the sediment trap and disposed of the soil within the landfill. Therefore soil sampling began at the surface of the sediment trap with soil sample soil-9 1ft and continued to soil-9 3ft (approximately 2 feet below land surface). The location of the hand auger boring is identified as soil-9 on ***Drawing 2 of 2***.

As per the approved Assessment Plan, soil samples were analyzed for Appendix I volatile organics and metals, as well as nitrate-nitrite (soluble), phosphorus, sulfate (soluble), percent solids, and pH. The results of which are included in ***Table 1, Soil Analytical Results***. The results of the sample analysis are discussed in Section 5.

4.2 Additional Surface Water Samples

S&ME collected seven (7) additional surface water samples in the ponded area of the lowlands found during the GPS delineation that had not been previously sampled and from areas previously sampled to compare concentrations over time. Please note that nine locations were approved in the Proposed Sample Location Plan, however two (2) of the nine (9) locations were dry during the sampling event. Eight (8) of the approved nine (9) locations were new and are identified as SW-6 through SW-13 on ***Drawing 2 of 2***. The previous surface water sample location identified as “Discharge” was also re-sampled.

S&ME also collected five (5) surface water samples from Indian Creek and its tributaries. Three (3) samples were collected along Indian Creek from up gradient and down gradient locations. These sample locations are identified as SW-15, SW-17, and SW-3 on ***Drawing 2 of 2***. Two (2) samples were collected from tributaries to and from the lowland area identified as SW-14 and SW-16 on ***Drawing 2 of 2***.

As per the approved Assessment Plan, surface water samples were analyzed for Appendix I volatile organics and metals, as well as biological oxygen demand (BOD), chemical oxygen demand (COD), nitrate-nitrite, phosphorus, sulfate, and total suspended solids (TSS). Field parameters of pH, specific conductivity, dissolved oxygen, and temperature were also recorded at the time of surface water sample collection. The results of which are included in ***Table 2, Surface Water Analytical Results***. The results of the sample analysis are discussed in Section 5.

4.3 QA/QC Samples

To aid in identifying any possible field or laboratory contaminants during this Assessment, S&ME collected duplicate samples, trip blanks, field blanks, and equipment blanks during the July 2009 sampling event. The following summarizes the QA/QC samples collected.

4.3.1 Duplicate Samples

S&ME collected four (4) duplicate samples: two (2) surface water and two (2) soil samples. Samples were not homogenized at time of collection due to the analysis of

volatile organics and potential analyte loss. However, duplicate samples were collected in the same media, and at the same location and time as the replicated sample. Duplicate samples are identified with a "D" suffix at the end of the sample identification (i.e. Soil-13D). Duplicate samples were analyzed for the sample parameters as their replicated sample. The results of the duplicate samples are included in ***Tables 1 and 2***.

4.3.2 Field Blanks

S&ME collected one (1) field blank during the July 2009 sampling event. The field blank consisted of pouring store bought drinking water into the laboratory provided containers in the field at the time of sample collection. The drinking water used was the water bought for the sampling job for field cleaning and decontamination of the sampling equipment. The field blank was analyzed for Appendix I volatile organics. The analytical results of the field blank are included in ***Table 2***.

4.3.3 Equipment Blanks

S&ME collected two (2) equipment blanks during the July 2009 sampling event. The equipment blanks were collected by pouring store bought drinking water into or over the sampling equipment and collecting the water into the laboratory provided containers. The equipment blanks were collected after initial decontamination of the equipment and prior to sample collection. The sample identified as Equipment Blank "A" was collected for the trowel used to collect the surface soil samples. The sample identified as Equipment Blank "B" was collected for the hand auger used to retrieve the soil samples in the sediment trap ST-2. Equipment blanks were analyzed for Appendix I volatile organics. The analytical results of the equipment blanks are included in ***Table 2***.

4.3.4 Trip Blanks

The laboratory provided two (2) trip blanks for the July 2009 sampling event. Both trip blanks were returned to the laboratory in their respective laboratory sealed packaging unopened. S&ME sampling personnel split up the trip blanks into two separate coolers upon return to the lab. Trip blanks were analyzed for Appendix I volatile organics. The analytical results of the trip blanks with no detections are not included in ***Table 2***; however, the results are included with their respective analytical reports in ***Appendix II***.

5. ANALYTICAL DATA

The results of the analytical data are discussed below as well as the results of the historical leachate data from the site.

5.1 Soil Samples

The following summarizes the results of the soil samples collected for the assessment activities on-site during the January and July 2009 sampling events.

5.1.1 Background Samples

As stated previously, S&ME collected six (6) surface background soil samples to characterize the baseline concentrations of the on-site soils from areas outside of the apparent leachate release. These six (6) samples are identified as soil-7, soil-8, soil-11,

soil-12, soil-13, and soil-14. Please note that sample soil-13 has a duplicate sample associated with it and location for soil-7 was sampled during two sampling events.

5.1.1.1 Volatile Organics

The following six (6) volatile organic constituents were detected in the soil background samples:

Acetone
Acetone was detected in four sample locations at concentrations ranging from 11 to 160 µg/kg. It should be noted that acetone was detected in sample soil-7 during the initial sample event in January 2009; however it was not detected during the July 2009 re-sample. The following table summarizes the acetone concentrations detected.

Sample I.D.	Result (µg/kg)
Soil-7 (Jan '09)	160
Soil-12	11
Soil-13	100
Soil-13D	150
Soil-14	130

2-Butanone (MEK)
2-Butanone was detected in two sample locations, Soil-7 and Soil-14, at concentrations of 9.9 and 22 µg/kg, respectively. It should be noted that 2-butanone was detected in sample soil-7 during the initial sample event in January 2009; however it was not detected during the July 2009 re-sample.

Carbon Disulfide
Carbon disulfide was reported in sample soil-14 at an estimated concentration of 0.6J µg/kg.

m & p Xylenes
m & p Xylenes were reported in sample soil-8 at an estimated concentration of 0.4J µg/kg.

Tetrachloroethene (PCE)
Tetrachloroethene was detected in sample soil-13 at a concentration of 13 µg/kg. It should be noted that tetrachloroethene was not detected in its duplicate sample, soil-13D at a method detection limit of 0.5 µg/kg.

Toluene
Toluene was reported in three of the background samples at estimated concentrations ranging from 0.5J to 0.8J µg/kg. The following table summarizes the reported toluene concentrations.

Sample I.D.	Result (µg/kg)
Soil-8	0.5J
Soil-12	0.6J
Soil-14	0.8J

5.1.1.2 Metals

Thirteen (13) Appendix I metals were detected in one or more of the background soil samples. The following table summarizes the metals detected.

SUMMARY OF METALS ANALYSIS IN BACKGROUND SOIL SAMPLES

Parameter	Sample ID and Date							
	Soil-7 01.23.09	Soil-7 07.07.09	Soil-8 07.07.09	Soil-11 07.07.09	Soil-12 07.07.09	Soil-13 07.08.09	Soil-13D 07.08.09	Soil-14 07.08.09
Antimony	<0.24	1.6J	1.21J	<0.334	2.42	4.06	4.25	4.06
Arsenic	4	4.92	2.2	4.77	4.59	5.07	5.03	4.84
Barium	52	114	36.2	113	118	170	153	127
Beryllium	0.66	1.31	0.529	0.888	1.34	1.71	1.71	1.5
Cadmium	0.12J	0.151	0.0475J	0.184	0.297	0.492	0.522	0.262
Chromium	39	41.8	36.2B	28.1B	57B	73B	75.3B	67.3B
Cobalt	5.4	7.61	4.49	5.6	10.6	11.8	11.6	10.2
Copper	11	15	13.1	12.7B	18.4B	22.5B	23.1B	20.8B
Lead	21	28	18.3	24.6	23.5	26.3	26.9	25
Nickel	15	13	10.6	8.07	16.4	23.6	23.4	19.6
Silver	<0.055	0.345J	<0.0673	0.143J	<0.0859	0.144J	<0.0895	0.0976J
Vanadium	57	68.2	57.2	54.8	76.3	88.2	90.2	83
Zinc	27	35.5	19	31.9	46.1	76.4	71.7	55.6

Notes:
Concentrations are in milligrams per kilogram.
J = estimated result detected between the method detection limit and the method reporting limit.
B = constituent detected in method blank.

5.1.1.3 Indicator Parameters

The following four (4) indicator parameters were analyzed for in the soil background samples, their concentration ranges are summarized below:

Parameter	Concentration Range
Nitrate-Nitrite as N	0.27 to 4.4 mg/kg
pH	4.60 to 7.5
Phosphorus	0.69 to 900 mg/kg
Sulfate	28 to 52 mg/kg

5.1.2 Assessment Samples

As stated previously, S&ME collected ten (10) surface soil samples in areas believed to have come in contact with the leachate release. The samples are identified as soil-1, soil-2, soil-3, soil-4, soil-5, soil-6, soil-10, soil-15, soil-16, and soil-17.

S&ME also collected soil samples at depth via a hand auger in sediment trap ST-2. Those samples are identified as soil-9 1ft, soil-9 1ftD, soil-9 2ft, and soil-9 3ft.

5.1.2.1 Volatile Organics

The following nine (9) volatile organic constituents were detected in the assessment soil samples:

Acetone

Acetone was detected in eleven (11) sample locations at concentrations ranging from 5.2 to 1800 µg/kg. It should be noted that acetone was detected in sample soil-9 1ft at 9 µg/kg but was not detected in its duplicate sample soil-9 1ftD. The following table summarizes the acetone concentrations detected.

Sample I.D.	Result (µg/kg)
Soil-2	55
Soil-3	50
Soil-4	5.2 J
Soil-5	6.5 J
Soil-6	38
Soil-9 1ft	9
Soil-9 2ft	7
Soil-9 3ft	65
Soil-15	560
Soil-16	1800
Soil-17	420

2-Butanone (MEK)

2-Butanone was detected in seven (7) sample locations at concentrations ranging from 3.4 to 1400 µg/kg. The following table summarizes the 2-butanone concentrations detected.

Sample I.D.	Result (µg/kg)
Soil-1	3.4 J
Soil-2	65
Soil-3	58
Soil-9 3ft	13
Soil-15	130
Soil-16	1400
Soil-17	200

Carbon Disulfide

Carbon disulfide was reported in three (3) sample locations at estimated concentrations ranging from 0.5 to 3 µg/kg. The following table summarizes the carbon disulfide concentrations detected.

Sample I.D.	Result (µg/kg)
Soil-9 3ft	0.5 J
Soil-16	3 J
Soil-17	2 J

Ethylbenzene

Ethylbenzene was detected in soil sample soil-16 at a concentration of 5 µg/kg.

2-Hexanone

2-Hexanone was detected in soil samples soil-16 and soil-17 at concentrations of 73 and 19 µg/kg, respectively.

m & p Xylenes

m & p Xylenes were reported in four (4) sample locations at estimated concentrations ranging from 0.4 to 1 µg/kg. Please note that m & p xylenes were detected in soil sample soil-9 1ft, but not in its duplicate sample. The following table summarizes the m & p xylenes concentrations detected.

Sample I.D.	Result (µg/kg)
Soil-9 1ft	0.4 J
Soil-9 2ft	0.6 J
Soil-10	0.8 J
Soil-16	1 J

o Xylene

o Xylene was detected in soil samples soil-10 and soil-16 at concentrations of 0.7 to 2 µg/kg, respectively.

Tetrachloroethene (PCE)

Tetrachloroethene was detected in soil sample soil-9 2ft at a concentration of 11 µg/kg. Please note that tetrachloroethene was not reported in soil samples soil-9 1ft, soil-9 1ftD, or soil-9 3ft above the method detection limit of 0.2 µg/kg.

Toluene

Toluene was detected in six (6) sample locations at concentrations ranging from 0.3 to 980 µg/kg. Please note that toluene was detected in soil-9 1ft, but not in its duplicate sample. The following table summarizes the toluene concentrations detected.

Sample I.D.	Result (µg/kg)
Soil-9 1ft	0.5 J
Soil-9 2ft	0.6 J
Soil-9 3ft	0.3 J
Soil-15	980 E
Soil-16	260
Soil-17	3

5.1.2.2 Metals

Thirteen (13) Appendix I metals were detected in one or more of the assessment soil samples. The following table summarizes the metals detected.

SUMMARY OF METALS ANALYSIS IN ASSESSMENT SOIL SAMPLES

Parameter	Sample ID and Date							
	Soil-1 01.23.09	Soil-2 01.23.09	Soil-3 01.23.09	Soil-4 01.23.09	Soil-5 01.23.09	Soil-6 01.23.09	Soil-9 1ft 07.08.09	Soil-9 1ftD 07.08.09
Antimony	0.35 J	0.23 J	<0.28	<0.29	<0.25	<0.38	1.04 J	1.73
Arsenic	4.4	3.8	7.2	4.8	5.2	6	11.7	10.8
Barium	39	70	110	100	93	110	54.3	75.4
Beryllium	0.62	0.95	1.6	1	0.81	1.5	1.67	1.92
Cadmium	0.10 J	0.14	0.19	0.19	0.2	0.22	0.222	0.221
Chromium	31	25	26	33	48	49	23.1 B	32.9 B
Cobalt	6.4	9.3	15	8.1	7.5	9.3	31.6	21.2
Copper	11	13	22	16	16	18	25.9 B	25.6 B
Lead	13	14	22	19	16	22	22.1	21.2
Nickel	8.7	11	18	15	19	21	23.9	23.5
Vanadium	64	59	69	63	61	78	53.1	56.8
Zinc	28	32	72	48	69	50	53.7	56.1

Parameter	Sample ID and Date					
	Soil-9 2ft 07.08.09	Soil-9 3ft 07.08.09	Soil-10 07.07.09	Soil-15 07.07.09	Soil-16 07.07.09	Soil-17 07.08.09
Antimony	0.813 J	<0.301	0.685 J	6.85	2.88 J	1.81 J
Arsenic	10.3	2.96	6.98	9.48	4.25	4.42
Barium	50.5	28.5	51.7	255	149	99.3
Beryllium	1.77	0.369	1.21	3.07	1.44	1.12
Cadmium	0.191	0.042 J	0.148	0.707	0.158 J	0.15
Chromium	25.4 B	21.5 B	23.4 B	126 B	63.6	52.6 B
Cobalt	18.4	7.07	14.3	18.8	8.47	6.69
Copper	27.6 B	8.12 B	21.3 B	45.1 B	31.8 B	19 B
Lead	20.7	15.5	26.2	54.1	32.7	23.9
Nickel	18.1	4.73	12.7	37.6	19.8	13.7
Silver	<0.0734	<0.0625	<0.0638	<0.265	0.293	<0.108
Vanadium	53.7	40	52.4	176	90.5	77.8
Zinc	54.4	15.1	42.5	134	70.4	103

Notes:

Concentrations are in milligrams per kilogram.

J = estimated result detected between the method detection limit and the method reporting limit.

B = constituent detected in method blank.

5.1.2.3 Indicator Parameters

The following four (4) indicator parameters were analyzed for in the assessment soil samples, their concentration ranges are summarized below:

Parameter	Concentration Range
Nitrate-Nitrite as N	<0.25 to 2.5 mg/kg
pH	5.42 to 8
Phosphorus	1.6 to 1300 mg/kg
Sulfate	10 to 120 mg/kg

5.2 Surface Water Samples

The following summarizes the results of the surface water samples collected for the assessment activities on-site during the January and July 2009 sampling events.

5.2.1 Background Samples

As stated previously, S&ME collected five (5) surface water samples to characterize background concentrations of the on-site surface waters. The surface water samples are identified as SW-1, SW-2, SW-5, SW-14, and SW-15.

5.2.1.1 Volatile Organics

No volatile organic constituents were detected in the background surface water locations.

5.2.1.2 Metals

Fifteen (15) Appendix I metals were detected in one or more of the background surface water samples. The following table summarizes the metals detected.

SUMMARY OF METALS ANALYSIS IN BACKGROUND SURFACE WATER SAMPLES

Parameter	Sample ID and Date				
	SW-1 01.23.09	SW-2 01.23.09	SW-5 01.23.09	SW-14 07.07.09	SW-15 07.07.09
Antimony	1.13	<0.0970	<0.0970	<0.680	<0.680
Arsenic	<0.261	0.270 J	<0.261	3.04 J	3.76 J
Barium	19.4 B	48.2 B	52.6 B	24.6 J	27 J
Beryllium	<0.0280	0.0480 J	0.175 J	<0.0750	<0.0750
Cadmium	<0.0590	<0.0590	<0.0590	<0.0870	0.132 J
Chromium	<0.346	<0.346	2.35 J	1.25 J	1.41 J
Cobalt	0.302 J	2.23 J	6.3	<0.580	<0.580
Copper	0.245 J	1.51	3.19	0.950 J	1.43 J
Lead	0.0840 J	0.558 J	3.3	<1.60	<1.60
Nickel	<0.277	0.889 J	1.77 J	0.708 J	1.41 J
Selenium	0.599 J	0.391 J	<0.253	<3.40	<3.40
Silver	<0.0110	<0.0110	<0.0110	<0.960	<0.960
Thallium	<0.0760	<0.0760	0.096	<0.0360	<0.0360
Vanadium	<1.46	2.22 J	8.74	1.39 J	1.59 J
Zinc	<1.45	8.10 BJ	11.2 B	3.77 J	3.60 J

Notes:
Concentrations are in micrograms per liter.
J = estimated result detected between the method detection limit and the method reporting limit.
B = constituent detected in method blank.

5.2.1.3 Indicator Parameters

The following ten (10) indicator parameters were analyzed for in the background surface water samples, their concentration ranges are summarized below:

Parameter	Concentration Range
pH	5.89 to 6.01
Conductivity	0.08 to 0.083 mS/cm
Dissolved Oxygen	7.56 to 7.69 mg/L
Temperature	22.3 to 23.4 °C
Biochemical Oxygen Demand	<0.18 to 2.4 mg/L
Chemical Oxygen Demand	<5.7 to 12 mg/L
Nitrate-Nitrite as N	0.058 to 0.68 mg/L
Phosphorus	<0.0048 to 0.38 mg/L
Sulfate	2.4 to 7.4 mg/L
Total Suspended Solids	2.6 to 260 mg/L

5.2.2 Assessment Samples

As stated previously, S&ME collected fourteen (14) surface water samples in areas believed to have come in contact with the leachate release. The surface water samples are identified as “Leachate”, “Discharge”, SW-1, SW-2, SW-5, SW-9, SW-12, SW-14, SW-15, and SW-16. Please note that surface water locations SW-12 and SW-16 have duplicate samples associated with them and surface water sample locations SW-3 and “Discharge” were sampled during two different sampling events.

5.2.2.1 Volatile Organics

The following six (6) volatile organic constituents were detected in the assessment surface water samples:

Acetone
Acetone was detected in three surface water sample locations at concentrations ranging from 3.6 to 65 µg/L. The following table summarizes the acetone concentrations detected.

Sample I.D.	Result (µg/L)
"Leachate"	65
SW-6	3.6 J
SW-7	4.4 J

2-Butanone (MEK)
2-Butanone was detected in surface water sample locations "Leachate" and "Discharge" at concentrations of 260 and 4.9 µg/L, respectively. Please note that 2-butanone was only detected in the January 2009 "Discharge" sample and not in the July 2009 sample.

2-Hexanone
2-Hexanone was detected in surface water sample location "Leachate" at 0.63 µg/L.

4-Methyl-2-Pentanone
4-Methyl-2-pentanone was detected in surface water sample location "Leachate" at 2.3 µg/L.

Methylene Chloride
Methylene chloride was detected in surface water sample location "Leachate" at 0.66 µg/L.

Toluene
Toluene was detected in three (6) surface water sample locations at concentrations ranging from 0.61 to 8.2 µg/L. The following table summarizes the toluene concentrations.

Sample I.D.	Result (µg/L)
"Leachate"	0.61 J
SW-7	1.4
SW-8	8.2
SW-9	1.5
SW-12	2.8
SW-12D	4.9

5.2.2.2 Metals

Fifteen (15) Appendix I metals were detected in one or more of the assessment surface water samples. The following table summarizes the metals detected.

SUMMARY OF METALS ANALYSIS IN ASSESSMENT SURFACE WATER SAMPLES

Parameter	Sample ID and Date							
	Leachate 01.19.09	Discharge 01.20.09	Discharge 07.07.09	SW-3 01.23.09	SW-3 07.07.09	SW-4 01.23.09	SW-6 07.07.09	SW-7 07.07.09
Antimony	1.5	<0.0970	<0.680	<0.0970	<0.680	<0.0970	<0.680	<0.680
Arsenic	2.12	0.803 J	<2.80	<0.261	3.73 J	<0.261	<2.80	4.41 J
Barium	339	37.1	50.1 J	22.1 B	22.7 J	22.7 B	55.1 J	65.5 J
Beryllium	0.0840 J	0.0280 J	<0.0750	<0.0280	0.0937 J	0.0320 J	<0.0750	<0.0750
Cadmium	0.458	<0.0590	<0.0870	<0.0590	<0.0870	<0.0590	<0.0870	<0.0870
Chromium	9.55	0.995 J	1.39 J	<0.346	1.51 J	<0.346	2.37 J	1.36 J
Cobalt	9.86	2.90 J	2.36 J	0.702 J	0.597 J	1.13 J	3.04 J	3.42 J
Copper	4.2	3.37	1.12 J	1.17	1.28 J	1.62	0.933 J	1.39 J
Lead	2.45	1.09	<1.60	0.0770 J	<1.60	0.796 J	<1.60	1.70 J
Nickel	10.2	2.16 J	0.830 J	0.643 J	1.35 J	0.609 J	1.33 J	2.04 J
Selenium	<0.253	<0.253	<3.40	<0.253	<3.40	<0.253	3.72 J	<3.40
Silver	0.242 J	<0.0110	<0.960	<0.0110	<0.960	<0.0110	<0.960	<0.960
Thallium	0.279 J	<0.0760	<0.0360	<0.0760	<0.0360	<0.0760	<0.0360	<0.0360
Vanadium	4.94 J	4.30 J	2.53 J	<1.46	3.19 J	2.88 J	3.03 J	1.29 J
Zinc	148	54.4	47.5	4.11 BJ	5.88 J	7.45 BJ	9.04 J	20.2 J

Parameter	Sample ID and Date							
	SW-8 07.08.09	SW-9 07.08.09	SW-12 07.08.09	SW-12D 07.08.09	SW-11 07.08.09	SW-16 07.08.09	SW-16D 07.08.09	SW-17 07.08.09
Antimony	1.02 J	5.57 J	0.970 J	3.62 J	2.43 J	<0.680	<0.680	<0.680
Arsenic	<2.80	<2.80	<2.80	3.26 J	3.47 J	<2.80	<2.80	<2.80
Barium	68.1 J	108	139	373	200	48.9 J	45.4 J	28.7 J
Beryllium	<0.0750	<0.0750	0.161 J	0.527 J	0.172 J	<0.0750	<0.0750	<0.0750
Cadmium	<0.0870	<0.0870	0.113 J	0.437 J	0.233 J	0.0983 J	<0.0870	<0.0870
Chromium	3.96 JB	2.66 JB	6.86 JB	23.6 B	7.73 JB	3.58 JB	2.35 JB	2.25 JB
Cobalt	2.95 J	7.51 J	12.7	36.3	14.7	1.82 J	1.96 J	0.654 J
Copper	1.56 JB	1.88 JB	3.58 JB	15.5 B	4.01 JB	1.92 JB	2.12 JB	2.13 JB
Lead	<1.60	2.73 J	5.71 J	11.9	5.64 J	2.75 J	2.15 J	<1.60
Nickel	2.94 J	2.63 J	3.57 J	10.4 J	4.74 J	1.46 J	1.34 J	1.26 J
Selenium	<3.40	<3.40	<3.40	<3.40	<3.40	<3.40	<3.40	<3.40
Silver	<0.960	<0.960	<0.960	1.05 J	<0.960	<0.960	<0.960	<0.960
Thallium	<0.0360	<0.0360	<0.0360	<0.0360	<0.0360	<0.0360	<0.0360	<0.0360
Vanadium	5.87 J	3.56 J	8.67 J	28	9.92 J	3.91 J	3.17 J	1.82 J
Zinc	39.1	43.7	37.6	80.6	37.4	37.4	29.1	8.91 J

Notes:
Concentrations are in micrograms per liter.
J = estimated result detected between the method detection limit and the method reporting limit.
B = constituent detected in method blank.

5.2.2.3 Indicator Parameters

The following ten (10) indicator parameters were analyzed for in the assessment surface water samples, their concentration ranges are summarized below:

Parameter	Concentration Range
pH	5.16 to 6.10
Conductivity	0.084 to 0.299 mS/cm

Dissolved Oxygen	3.23 to 7.82 mg/L
Temperature	21.1 to 22.9 °C
Biochemical Oxygen Demand	<0.18 to >100 mg/L
Chemical Oxygen Demand	<5.7 to 450 mg/L
Nitrate-Nitrite as N	0.031 to 2.8 mg/L
Phosphorus	0.04 to 0.89 mg/L
Sulfate	2.1 to 16 mg/L
Total Suspended Solids	6.2 to 610 mg/L

5.3 Historical Leachate Data

Historical leachate analytical data from the years 2007 and 2009 have been included in ***Table 3, Historical Leachate Data (2007 - 2009)***. This information has been included to provide some insight as to which constituents and what concentrations may have been released from the leachate tanks during the January 2009 release. The results are discussed in more detail in Section 7.0.

6. STATISTICAL ANALYSIS OF METALS

Because metal concentrations in soil and surface water occur naturally and can fluctuate greatly even within close proximity to each other on site, S&ME statistically compared the background and assessment soil and surface water samples utilizing the Dixon's test for outliers method. The method was selected to aid in the identification of potential sample locations which may have elevated metal concentrations above naturally occurring concentrations on site. The results of the statistical evaluation are presented below and the corresponding data sheets from the analysis are presented in ***Appendix III***.

The Dixon's test for outliers analyzes a data set of 25 or fewer measurements and screens for outlying concentrations. S&ME used this analysis to identify if any locations exhibited concentrations outside the norm for the group. Based on this analysis the following locations indicated outlying metals concentrations.

Sample Location	Outlying Metal
Soil-7 (Background)	Silver
Soil-11 (Background)	Silver
Soil-13(Background)	Silver
Soil-10	Arsenic
Soil-15	Arsenic
	Beryllium
	Chromium
	Cobalt
	Copper
	Lead
	Nickel
	Vanadium
	Zinc
SW-9	Antimony
	Barium

SW-11	Antimony
	Barium
	Cadmium
	Lead
SW-12	Barium
	Lead
SW-12D	Antimony
	Barium
	Beryllium
	Cadmium
	Chromium
	Cobalt
	Copper
	Lead
	Nickel
	Vanadium
Leachate	Thallium
	Zinc

7. DATA SUMMARY

To summarize the analytical data, S&ME prepared analytical data summary sheets by constituent and area of analysis (i.e. lowland surface water samples, lowland soil samples, and sediment trap soil samples). The analytical data summary sheets are provided in ***Appendix IV*** and are discussed below.

7.1 Sediment Trap (ST-2) Soil Samples

As discussed previously, S&ME collected soil samples within sediment trap ST-2. Those samples included soil-3, soil-9 1ft, soil-9 1ftD, soil-2 ft, and soil-9 3ft. The soil samples collected within sediment trap ST-2 were then compared with background soil samples collected within sediment basin SB-1 (soil-8) and the lowland area (soil-7, soil-11, soil-12, soil-13, soil-13D, and soil-14). The results of the comparison are as follows.

7.1.1 Volatile Organics

The following volatile organic constituents were detected in the assessment soil samples for sediment trap ST-2.

Acetone

Acetone was detected in five of the eight background samples at concentrations ranging from 11 to 160 µg/kg. Four of the five assessment samples detected acetone at concentrations ranging from 11 to 65 µg/kg. Acetone was also present within the equipment blanks and field blanks. Because acetone was detected in the background samples, and the concentration of acetone within the assessment samples were below background, it appears that acetone may be a laboratory artifact, and is not present in the soil due to the leachate release.

2-Butanone (MEK)
2-Butanone was detected in two of the eight background samples at concentrations ranging from non-detect to 22 µg/kg. Two of the five assessment samples detected 2-butanone at concentrations ranging from non-detect to 58 µg/kg. 2-Butanone was also detected in Equipment Blank B.

The appearance of 2-butanone appears to be random. It was only detected in soil-3 and soil-9 3ft in the assessment samples. Due to the random occurrence of 2-butanone within the assessment samples and the detections within the background samples, it appears that 2-Butanone may be a laboratory artifact, and is not present in the soil due to the leachate release.

Carbon Disulfide
Carbon disulfide was detected in one background sample at a concentration of 0.6J µg/kg and one assessment sample at a concentration of 0.5J µg/kg. The occurrence of carbon disulfide appears to be random with trace concentrations. Carbon disulfide has not been detected in the leachate samples for the past 2.5 years and it was not detected in the sample labeled “leachate” which was collected at the time of release coming from the sediment trap. It appears that the detection of carbon disulfide in the soil samples is not from the leachate release.

m & p Xylenes
m & p Xylenes were detected in one background sample at a concentration of 0.4J µg/kg and two assessment samples at 0.4J to 0.6J µg/kg. The detection of m & p Xylenes are in trace amounts and have not been previously detected in the leachate samples from the past 2.5 years or in the “leachate” sample collected from the release. It appears that the detection of m & p Xylenes in the soil samples is not from the leachate release.

Tetrachloroethene (PCE)
Tetrachloroethene was detected in one background sample at a concentration of 13 µg/kg (Soil-13, but not Soil-13D) and one assessment sample (Soil-9 2ft, but not Soil-9 1ft, Soil-9 1ftD, or Soil-9 3 ft) at a concentration of 11 µg/kg. Tetrachloroethene has only been detected in the leachate samples once in the past 2.5 years (April 2007) and was not detected in the “leachate” sample collected from the release. It appears that the detection of tetrachloroethene in the soil samples is not from the leachate release, and is also suspect.

Toluene
Toluene was detected in three of the eight background samples and three of the five assessment samples at concentrations ranging from non-detect to 0.8J µg/kg. Toluene was also present in Equipment Blank B and the field blank. Because toluene concentrations were detected in trace amounts and are present in some of the background samples and some of the blanks, it appears that the concentrations of toluene found in the soil samples are not from the leachate release.

7.1.2 Metals

Concentrations of antimony, barium, cadmium, chromium, lead, silver, vanadium and zinc within sediment trap ST-2 were below background concentrations. Based on the data, these metals do not appear to be elevated within the sediment trap. The following metal concentrations were detected above background.

Arsenic
Arsenic was detected in each of the background samples at concentrations ranging from 2.2 to 5.07 mg/kg. Four of the five assessment samples contained concentrations of arsenic above background; however the concentrations were not high enough to constitute an outlier concentration. The highest concentration of arsenic was detected in Soil-9 1ft at 11.7 mg/kg. Based on the data range, it appears that the concentrations of arsenic within sediment trap ST-2 which are above background are slightly elevated, and maybe above the naturally occurring range for the site.

Beryllium
Beryllium was detected in each of the background samples at concentrations ranging from 0.529 to 1.71 mg/kg. Two of the five assessment samples contained concentrations of beryllium above background; however the concentrations were not high enough to constitute an outlier concentration. The highest concentration of beryllium was detected in Soil-9 1ftD at 1.92 mg/kg. Based on the data range, it appears that even though that some of the concentrations of beryllium within sediment trap ST-2 are above background, their concentrations are within the naturally occurring range.

Cobalt
Cobalt was detected in each of the background samples at concentrations ranging from 4.49 to 11.8 mg/kg. Four of the five assessment samples contained concentrations of cobalt above background; however the concentrations were not high enough to constitute an outlier concentration. The highest concentration of cobalt was detected in Soil-9 1ft at 31.6 mg/kg. Based on the data range, it appears that the concentrations of cobalt within sediment trap ST-2 which are above background are slightly elevated, and maybe above the naturally occurring range for the site.

Copper
Copper was detected in each of the background samples at concentrations ranging from 11 to 23.1 mg/kg. Three of the five assessment samples contained concentrations of copper above background; however the concentrations were not high enough to constitute an outlier concentration. The highest concentration of copper was detected in Soil-9 2ft at 27.6 mg/kg. Based on the data range, it appears that even though that some of the concentrations of copper within sediment trap ST-2 are above background, their concentrations are within the naturally occurring range.

Nickel
Nickel was detected in each of the background samples at concentrations ranging from 8.07 to 23.6 mg/kg. One of the five assessment samples contained a concentration of nickel above background; however the concentration was not high enough to constitute

an outlier concentration. The highest concentration of copper was detected in Soil-9 1ft at 23.9 mg/kg. Based on the data range, it appears that even though that one concentration of nickel within sediment trap ST-2 is above background, its concentration is within the naturally occurring range.

7.1.3 Indicator Parameters

Levels of nitrate/nitrite, phosphorus, and sulfate in the assessment samples appear to be within background range for the site.

7.2 Lowland Area Soil Samples

As discussed previously, S&ME collected soil samples within the lowland area "down stream" of the leachate release and also within the path of leachate flow from the tanks. Those samples included soil-1, soil-2, soil-4, soil-5, soil-6, soil-10, soil-15, and soil-17. The assessment soil samples were then compared with background soil samples collected around the perimeter of the lowland area (soil-7, soil-11, soil-12, soil-13, soil-13D, and soil-14). The results of the comparison are as follows.

7.2.1 Volatile Organics

The following volatile organic constituents were detected in the assessment soil samples for the lowlands area.

Acetone

Acetone was detected in five of the seven background samples at concentrations ranging from non-detect to 160 µg/kg. Seven of the nine assessment samples contained concentrations of acetone ranging from non-detect to 1800 µg/kg. Acetone was also detected within the field and equipment blanks at concentrations ranging from 41 to 59 µg/L. Three of the nine assessment samples contained concentrations of acetone above background concentrations.

Because acetone was detected within the background samples, and equipment and field blanks, it appears that the four assessment samples within background range may be due to laboratory artifacts rather than from the leachate release. However, three soil samples, soil-15, soil-16, and soil-17, contained concentrations of acetone ranging from 420 to 1800 µg/kg.

It should be noted, that the location of soil-15, soil-16, and soil-17 are in the flooded area of the lowlands, and their concentrations exceed the non-flooded areas where the leachate came in direct contact with the soil, undiluted (i.e. soil-1, soil-2, soil-4, and soil-10). It should also be noted that their concentrations exceed the concentration of acetone detected in the sample identified as "leachate" collected during the release and the concentrations in the historical leachate samples. Due to these facts, the acetone detected within samples soil-15, soil-16, and soil-17 may not be from the leachate release but rather from another source. None the less, acetone was detected above background in soil-15, soil-16, and soil-17.

2-Butanone (MEK)
2-Butanone was detected in two of the seven background samples at concentrations ranging from non-detect to 22 µg/kg. Five of the nine assessment samples contained concentrations of 2-butanone ranging from non-detect to 1400 µg/kg. 2-Butanone was also detected in Equipment Blank B at a concentration of 2.7 µg/L. 2-Butanone was detected in five of the nine assessment samples at concentrations ranging from non-detect to 1400 µg/kg; four of which are above background concentrations (soil-2, soil-15, soil-16, and soil-17). 2-Butanone was also detected in the "Leachate" sample at a concentration of 260 µg/L.

Because 2-butanone was detected in two of the background samples and one of the equipment blanks, it appears that the assessment samples soil-1 and soil-2 maybe from laboratory artifacts and not from the leachate release. However, three soil samples, soil-15, soil-16, and soil-17, contained elevated concentrations of 2-butanone.

It should be noted, that the location of soil-15, soil-16, and soil-17 are in the flooded area of the lowlands, and their concentrations exceed the non-flooded areas where the leachate came in direct contact with the soil, undiluted (i.e. soil-1, soil-2, soil-4, and soil-10). It should also be noted that their concentrations exceed the concentration of 2-butanone detected in the sample identified as "leachate" collected during the release. Due to these facts, the 2-butanone detected within samples soil-15, soil-16, and soil-17 may not be from the leachate release but rather from another source. None the less, 2-butanone was detected above background in soil-15, soil-16, and soil-17.

Carbon Disulfide
Carbon disulfide was detected in one of the background samples at a concentration of 0.6J µg/kg. Carbon disulfide was also detected two of the assessment samples, soil-16 and soil-17, at concentrations of 3J and 2J µg/kg, respectively. It should be noted, that soil-16 and soil-17 are located in the flooded area of the lowlands, and their concentrations exceed the non-flooded areas where the leachate came in direct contact with the soil, undiluted (i.e. soil-1, soil-2, soil-4, and soil-10). It should also be noted that carbon disulfide was not detected in the sample identified as "leachate" collected during the release nor has it been detected historically in the leachate samples. Due to these facts, the carbon disulfide detected in the samples may not be from the leachate release but rather from another source. None the less, carbon disulfide was detected above background in soil-16 and soil-17.

Ethylbenzene
Ethylbenzene was detected in only one assessment sample, soil-16, at a concentration of 5 µg/kg. Soil-16 is located in the flooded area of the lowlands, and ethylbenzene was not detected in the non-flooded areas where the leachate came in direct contact with the soil, undiluted (i.e. soil-1, soil-2, soil-4, and soil-10). Ethylbenzene was also not detected in the sample identified as "leachate" collected during the release nor has it been detected historically in the leachate samples for the last two years. Due to these facts, the ethylbenzene detected in soil-16 may not be from the leachate release but rather from another source. None the less, ethylbenzene was detected above background in soil-16.

2-Hexanone
2-Hexanone was only detected in assessment soil samples soil-16 and soil-17 at concentrations of 73 and 19 µg/kg, respectively. Soil-16 and soil-17 are located in the flooded area of the lowlands, and 2-hexanone was not detected in the non-flooded areas where the leachate came in direct contact with the soil, undiluted (i.e. soil-1, soil-2, soil-4, and soil-10). 2-Hexanone was detected in the sample identified as "leachate" collected during the release at a concentration of 0.63 µg/L, which is comparatively lower than the concentrations in soil-16 and soil-17. Also, it has not been detected historically in the leachate samples prior to the release. Due to these facts, the 2-hexanone detected in soil-16 and soil-17 may not be from the leachate release but rather from another source. None the less, 2-hexanone was detected above background in soil-16 and soil-17.

Total Xylenes
Total xylenes were detected in only two assessment samples, soil-10 and soil-16, at concentrations of 1.5 and 3 µg/kg. Total xylenes were not detected in the sample identified as "leachate' collected during the release but have been detected randomly in the historical leachate samples. Because total xylenes were detected randomly and in trace amounts, and because it was not detected in the sample identified as "leachate", the concentrations of total xylenes in soil-10 and soil-16 may not be from the leachate release, but from another source. None the less, total xylenes were detected above background in soil-10 and soil-16.

Toluene
Toluene was detected in two of the seven background samples at concentrations ranging from non-detect to 0.8J µg/kg. Three assessment locations, soil-15, soil-16, and soil-17, contained concentrations of toluene at 980, 260, and 3 µg/kg, respectively. Toluene was also detected in Equipment Blank B and the Field Blank at concentrations of 0.76J and 0.75J µg/L, respectively.

Soil-15, soil-16, and soil-17 are located in the flooded area of the lowlands, and their concentrations exceed the non-flooded areas where the leachate came in direct contact with the soil, undiluted (i.e. soil-1, soil-2, soil-4, and soil-10). It should also be noted that their concentrations exceed the concentration of toluene detected in the sample identified as "leachate" collected during the release. Also soil-15 and soil-16 exceed the historical concentrations detected in the leachate samples. Due to these facts, the toluene detected within samples soil-15, soil-16, and soil-17 may not be from the leachate release but rather from another source. None the less, toluene was detected above background in soil-15, soil-16, and soil-17.

7.2.2 Metals
The following metals were detected in the assessment soil samples for the lowlands area.

Antimony
Antimony was detected in five of the seven background samples at concentrations ranging from non-detect to 4.25 mg/kg. Six of the nine assessment samples contained concentrations of antimony above background; however the concentrations were not high

enough to constitute an outlier concentration. The highest concentration of antimony was detected in soil-15 at 6.85 mg/kg. Based on the data range, it appears that even though that one concentration of antimony is above background, its concentration is possibly within the naturally occurring range.

Arsenic
Arsenic was detected in each of the background samples at concentrations ranging from 4 to 5.07 mg/kg. Four of the assessment samples contained concentrations of arsenic above background; two of which were high enough to constitute an outlier concentration. The highest concentration of arsenic was detected in soil-15 at 9.48 mg/kg. Based on the data range, it appears that the concentration of arsenic in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Barium
Barium was detected in each of the background samples at concentrations ranging from 52 to 170 mg/kg. Only one of the assessment samples contained a concentration of barium above background; however the concentration was not high enough to constitute an outlier concentration. The highest concentration of barium was detected in soil-15 at 255 mg/kg. Based on the data range, it appears that even though one concentration of barium is above background, its concentration is possibly within the naturally occurring range.

Beryllium
Beryllium was detected in each of the background samples at concentrations ranging from 0.66 to 1.71 mg/kg. One of the assessment samples contained a concentration of beryllium above background which was high enough to constitute an outlier concentration. The highest concentration of beryllium was detected in soil-15 at 3.07 mg/kg. Based on the data range, it appears that the concentration of beryllium in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Cadmium
Cadmium was detected in each of the background samples at concentrations ranging from 0.12J to 0.522 mg/kg. One of the nine assessment samples contained a concentration of cadmium above background; however the concentration was not high enough to constitute an outlier concentration. The highest concentration of cadmium was detected in soil-15 at 0.707 mg/kg. Based on the data range, it appears that even though that one concentration of cadmium is above background, its concentration is possibly within the naturally occurring range.

Chromium
Chromium was detected in each of the background samples at concentrations ranging from 28.1 to 75.3 mg/kg. One of the nine assessment samples contained a concentration of chromium above background which was high enough to constitute an outlier concentration. The highest concentration of chromium was detected in soil-15 at 126 mg/kg. Based on the data range, it appears that the concentration of chromium in soil-15

may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Cobalt
Cobalt was detected in each of the background samples at concentrations ranging from 5.4 to 11.8 mg/kg. Two of the nine assessment samples contained concentrations of cobalt above background; one of which was high enough to constitute an outlier concentration. The highest concentration of cobalt was detected in soil-15 at 18.8 mg/kg. Based on the data range, even though the concentration of cobalt in soil-15 is slightly above background, the concentration appears to be within the naturally occurring range.

Copper
Copper was detected in each of the background samples at concentrations ranging from 11 to 23.1 mg/kg. Two of the nine assessment samples contained concentrations of copper above background; one of which was high enough to constitute an outlier concentration. The highest concentration of copper was detected in soil-15 at 45.1 mg/kg. Based on the data range, it appears that the concentration of copper in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Lead
Lead was detected in each of the background samples at concentrations ranging from 21 to 28 mg/kg. Two of the nine assessment samples contained concentrations of lead above background; one of which was high enough to constitute an outlier concentration. The highest concentration of lead was detected in soil-15 at 54.1 mg/kg. Based on the data range, it appears that the concentration of lead in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Nickel
Nickel was detected in each of the background samples at concentrations ranging from 8.07 to 23.6 mg/kg. One of the nine assessment samples contained a concentration of nickel above background which was high enough to constitute an outlier concentration. The highest concentration of nickel was detected in soil-15 at 37.6 mg/kg. Based on the data range, it appears that the concentration of nickel in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Silver
Silver was detected in four of the seven background samples at concentrations ranging from non-detect to 0.345J mg/kg. One assessment sample, soil-16, contained silver at a concentration of 0.293 mg/kg, which is within background range for the site.

Vanadium
Vanadium was detected in each of the background samples at concentrations ranging from 54.8 to 90.2 mg/kg. Two of the nine assessment samples contained concentrations of vanadium above background; one of which was high enough to constitute an outlier concentration. The highest concentration of vanadium was detected in soil-15 at 176

mg/kg. Based on the data range, it appears that the concentration of vanadium in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

Zinc
Zinc was detected in each of the background samples at concentrations ranging from 27 to 76.4 mg/kg. Two of the nine assessment samples contained concentrations of zinc above background; one of which was high enough to constitute an outlier concentration. The highest concentration of zinc was detected in soil-15 at 134 mg/kg. Based on the data range, it appears that the concentration of zinc in soil-15 may be slightly elevated. The remaining samples appear to be within the naturally occurring range.

7.2.3 Indicator Parameters

Levels of nitrate/nitrite, phosphorus, and sulfate in the assessment samples appear to be within background range for the site, except within two soil samples, soil-15 and soil-16, which have elevated concentrations of phosphorous and sulfate.

7.3 Lowland Area Surface Water Samples

As discussed previously, S&ME collected surface water samples within the lowland area down gradient of the leachate release during different time intervals to compare release and post release concentrations. Those samples included “leachate”, “discharge”, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12/12D, SW-16/16D, and SW-17. The assessment surface water samples were then compared with background surface water samples collected up-gradient of the release in the lowland area and in periphery surface water features (SW-1, SW-2, SW-5, SW-14, and SW-15). The results of the comparison are as follows.

7.3.1 Volatile Organics

The constituents 2-hexanone, 4-methyl-2-pentanone, and methylene chloride were detected in the sample identified as “leachate” collected during the release, but were not detected in any other samples.

The following constituents were detected in one or more locations. Note that the surface water quality standards are based on the September 3, 2008 freshwater aquatic life (for Class C water) or human health values, whichever is lower.

Acetone
Acetone was not detected in the background samples; however it was detected in three of the sixteen assessment samples at concentrations ranging from non-detect to 65 µg/L. Acetone was also detected in the equipment blanks and field blanks at concentrations ranging from 41 to 59 µg/L. The highest concentration of acetone was detected in the sample identified as “leachate” collected during the release. The other two locations, SW-6 and SW-7 contained acetone at 3.6 and 4.4 µg/L, respectively.

Due to the detection of acetone in the equipment and field blanks, it appears that the concentration of acetone in SW-6 and SW-7 may be from possible laboratory artifacts

rather than the leachate release. No other samples contained acetone. The NCAC 2B standard for acetone is 2000 µg/L.

2-Butanone (MEK)
2-Butanone was not detected in the background samples; however it was detected in two of the assessment samples, "leachate" and "discharge", during the January sampling events at concentrations of 260 and 4.9 µg/L, respectively. 2-Butanone was not detected in the July 2009 samples. The NCAC 2B standard for 2-butanone is 160,000 µg/L.

Toluene
Toluene was not detected in the background samples; however it was detected in six of the sixteen assessment samples at concentrations ranging from non-detect to 8.2 µg/L. Toluene was also detected in equipment blank "B" and the field blank at concentrations of 0.76 and 0.75 µg/L, respectively. It should be noted that the lowest concentration of toluene was detected in the sample identified as "leachate" collected during the release and that all other detections of toluene are above this concentration and collected at a later date, which may be an indication of an outside source rather than the leachate release. None the less, the concentrations of toluene detected are below the NCAC 2B standard of 11 µg/L.

7.3.2 Metals

The following metals were detected in the assessment surface water samples for the lowlands area.

Antimony
Antimony was detected in one background sample, SW-1, at a concentration of 1.13 µg/L. Antimony was also detected in six of the sixteen assessment samples at concentrations ranging from non-detect to 5.57J µg/L. Four of the assessment samples contained antimony above background concentrations, three of which constitute outlier concentrations, SW-9, SW-11, and SW-12D. The NCAC 2B standard for antimony is 640 µg/L.

It should be noted that background concentrations of antimony in the soil ranged from non-detect to 4.25 mg/kg. It should also be noted that SW-12 and SW-12D ranged in concentration from 0.970 to 3.62 µg/L, which may indicate that turbidity in the surface water samples might be the cause of the elevated antimony concentrations. Concentrations of antimony in the leachate from the previous two years, prior to the release, have ranged from non-detect to 0.84 µg/L. Also, the concentrations of antimony in SW-9, SW-11, and SW-12 are greater than the concentration in the sample identified as "leachate" collected during the release. Due to these facts, it appears that the elevated concentrations of antimony may be from turbidity in the sample or another source, rather than the leachate release.

Arsenic
Arsenic was detected in three of the five background samples at concentrations ranging from non-detect to 3.76 µg/L. Arsenic was also detected in six of the sixteen assessment

samples at concentrations ranging from non-detect to 4.41 µg/L. One sample, SW-7 was detected above background concentrations, however the detection was not high enough constitute an outlier concentration. Based on the data, it appears that the concentrations of arsenic detected in the assessment samples are within background range and do not exceed the NCAC 2B standard of 10 µg/L.

Barium

Barium was detected in each of the background samples at concentrations ranging from 19.4 to 52.6 µg/L. Barium was also detected in each of the assessment samples at concentrations ranging from 22.1 to 373 µg/L. Eight assessment samples contained concentrations of barium above background, five of which constitute outlier concentrations (leachate, SW-9, SW-11, SW-12, and SW-12D).

Surface water samples SW-9, SW-11, SW-12, and SW-12D were collected in July 2009, after the "leachate" sample was collected during the release in January 2009. A follow up sample from the "leachate" sample point was not collected in July 2009; however based on the July 2009 data, it appears that barium is only elevated in the area of SW-9, SW-11 and SW-12. It should be noted that concentrations between SW-12 and SW-12D varied by 234 µg/L, which may be an indication of turbidity influencing the barium concentrations in the samples. The NCAC 2B standard for barium is 200,000 µg/L.

Beryllium

Beryllium was detected in two of the five background samples at concentrations ranging from non-detect to 0.175 µg/L. Beryllium was also detected in seven of the sixteen assessment samples at concentrations ranging from non-detect to 0.527 µg/L. SW-12D had the highest concentration of beryllium, which constituted an outlier concentration.

It should be noted that SW-12 and SW-12D varied in concentration by 0.366 µg/L, which may indicate that turbidity influenced the beryllium detection in SW-12D. Based on the above data, it appears that the concentration in SW-12D is elevated above background, however it's likely due to turbidity in the sample. Each concentration of beryllium detected in the samples was below the NCAC 2B standard of 6.5 µg/L.

Cadmium

Cadmium was detected in one of the background samples, SW-15, at a concentration of 0.132 µg/L. Cadmium was also detected in five of the sixteen assessment samples at concentrations ranging from non-detect to 0.458 µg/L, of which three were above background and outlier concentrations ("leachate", SW-11 and SW-12D). The "leachate sample collected in January 2009 had the highest concentration of cadmium at 0.458 µg/L. SW-11 and SW-12D contained concentrations of cadmium at 0.233 and 0.437 µg/L, respectively.

It should be noted that the concentration of cadmium in SW-12 and SW-12D varied by 0.324 µg/L, which may indicate that turbidity influenced the concentration of cadmium in SW-12D. It should also be noted that cadmium has not been historically detected in the two years preceding the leachate release. It appears that cadmium concentrations in the

surface water samples are likely a product of turbidity in the samples and their concentrations are below the NCAC 2B standard of 2 µg/L.

Chromium
Chromium was detected in three of the five background samples at concentrations ranging from non-detect to 2.35 µg/L. Chromium was also detected in fourteen of the sixteen assessment samples at concentrations ranging from non-detect to 23.6 µg/L. The highest concentration of Chromium was detected in SW-12D and its concentration was indicated as an outlier.

It should be noted that background concentrations of chromium in the soil ranged from 28.1 to 75.3 mg/kg. It should also be noted that SW-12 and SW-12D ranged in concentration from 6.86 to 23.6 µg/L, which may indicate that turbidity in the surface water samples might be the cause of the elevated chromium concentrations. Also, the concentration of chromium in SW-12D is greater than the concentration in the sample identified as “leachate” collected during the release. It appears that the elevated concentrations of chromium may be from turbidity in the samples and their concentrations are below the NCAC 2B standard of 50 µg/L.

Cobalt
Cobalt was detected in three of the five background samples at concentrations ranging from non-detect to 6.3 µg/L. Cobalt was also detected in each of the sixteen assessment samples at concentrations ranging from 0.597 to 36.3 µg/L. Five of the assessment samples contained concentrations of cobalt above background, one of which, SW-12D, was an outlier concentration.

It should be noted that background concentrations of cobalt in the soil ranged from 5.4 to 11.8 mg/kg. It should also be noted that SW-12 and SW-12D ranged in concentration from 12.7 to 36.3 µg/L, which may indicate that turbidity in the surface water samples might be the cause of the elevated cobalt concentrations. Concentrations of cobalt in SW-11, SW-12 and SW-12D are greater than the concentration in the sample identified as “leachate” collected during the release. Due to these facts, it appears that the elevated concentrations of cobalt may be from turbidity in the sample or another source, rather than the leachate release. The NCAC 2B standard for cobalt is 270 µg/L.

Copper
Copper was detected in each of the background samples at concentrations ranging from 0.245 to 3.19 µg/L. Copper was also detected in eleven of the sixteen assessment samples at concentrations ranging from non-detect to 15.5 µg/L. Five samples contained concentrations of copper above background; however only one sample constituted an outlier concentration, SW-12D. Even though some of the assessment samples contained concentrations of copper above background, it appears as though the samples are within background range, except for SW-12D. In addition, all concentrations except that for SW-12D, are below the NCAC 2B standard of 7 µg/L. Historical concentrations of copper in the leachate range from non-detect to 1 µg/L.

SW-12D is the only assessment sample which appears to be elevated above background. It should be noted that the concentration of copper in SW-12 and SW-12D varied by 11.92 µg/L and may indicate that turbidity within the sample caused the elevated concentration. It should also be noted that the concentration in SW-12 exceeds the concentration of copper in historical leachate analysis and exceeds the concentration in the sample identified as "leachate" collected during the release. Due to these facts, it appears that the concentration of copper in SW-12D appears to be elevated due to turbidity in the sample.

Lead

Lead was detected in three of the five background samples at concentrations ranging from non-detect to 3.3 µg/L. Lead was also detected in eleveeb of the sixteen assessment samples at concentrations ranging from non-detect to 11.9 µg/L. Three of the assessment samples contained lead above background concentrations, each of which constitute outlier concentrations, SW-11, SW-12, and SW-12D. However, their concentrations are below the NCAC 2B standard of 25 µg/L.

It should be noted that background concentrations of lead in the soil ranged from 21 to 28 mg/kg. It should also be noted that SW-12 and SW-12D ranged in concentration from 5.71 to 11.9 µg/L, which may indicate that turbidity in the surface water samples might be the cause of the elevated lead concentrations. Also, the concentrations of lead in SW-11, SW-12, and SW-12D are greater than the concentration in the sample identified as "leachate" collected during the release. Due to these facts, it appears that the elevated concentrations of lead may be from turbidity in the sample or another source, rather than the leachate release.

Nickel

Nickel was detected in four of five background samples at concentrations ranging from non-detect to 1.77 µg/L. Nickel was also detected in each of the assessment samples at concentrations ranging from 0.609 to 10.4 µg/L. Eight of the sixteen assessment samples contained concentrations of nickel above background; however only two samples, "leachate" and SW-12D, indicated outlier concentrations.

It should be noted that nickel was detected in the background soil samples at concentrations ranging from 8.07 to 23.6 mg/kg. It should also be noted that the concentration of nickel in SW-12 and SW-12D ranged from 3.57 to 10.4 µg/L, which may indicate that turbidity may have elevated the nickel concentrations in the samples. Even though concentrations of nickel are above background in some of the assessment samples, each of the samples was below the NCAC 2B freshwater standard of 88 µg/L.

Selenium

Selenium was detected in two of the five background samples at concentrations ranging from non-detect to 0.599 µg/L. Selenium was also detected in one assessment sample, SW-6, at a concentration of 3.72 µg/L. The concentration of selenium in SW-6 appears to be elevated above background; however it is the only sample that detected selenium in the assessment samples including the sample identified as "leachate" collected during the

time of release. The concentration of selenium in SW-6 may be from another source rather than the leachate release. The concentration is below the NCAC 2B standard of 5 µg/L.

Silver
Silver was detected in two of the assessment samples, "leachate" and SW-12D, at concentrations of 0.242 and 1.05 µg/L, respectively. Silver was not detected in the background samples and has not been historically detected within the leachate prior to the release. However, silver was detected in the background soil samples at concentrations ranging from non-detect to 0.345 mg/kg. Due to the fact that silver was detected in SW-12D but not in SW-12 and the concentration of SW-12D exceeded the concentration of the "leachate" sample collected at release, the detection of silver may be due to turbidity within the samples rather from the release. Both detections of silver estimated were above the NCAC 2B freshwater standard of 0.06 µg/L.

Thallium
Thallium was detected in one of the background samples at a concentration of 0.096 µg/L. In the assessment samples, thallium was only detected in the January 2009 "leachate" sample collected during the release at a concentration of 0.279 µg/L. The remaining assessment samples did not contain thallium above method detection limits. The NCAC 2B standard for thallium is 0.47 µg/L.

Vanadium
Vanadium was detected in four of the five background samples at concentrations ranging from non-detect to 8.74 µg/L. Vanadium was also detected in fifteen of the sixteen assessment samples at concentrations ranging from non-detect to 28 µg/L. Two of the assessment samples, SW-11 and SW-12D were above background concentrations.

SW-11 contained vanadium at 9.92 µg/L which is slightly above background and did not constitute an outlier concentration. It appears that the vanadium concentration in SW-11 is within background range. SW-12D, however, contained vanadium at 28 µg/L and did constitute an outlier concentration and appears to be elevated above background. But it should be noted that SW-12 only contained vanadium at 8.67 µg/L, which is a 19.33 µg/L difference between SW-12 and its duplicate. This difference in concentration may be due to turbidity within the sample and may not reflect impact from the release. It should also be noted that the vanadium concentration in SW-12D is above the concentration of the "leachate" sample collected during the release. There is no NCAC 2B freshwater standard for vanadium for comparison.

Zinc
Zinc was detected in four of the five background samples at concentrations ranging from non-detect to 11.2 µg/L. Zinc was also detected in each of the assessment samples at concentrations ranging from 4.11 to 148 µg/L, eleven of which contained concentrations above background. It appears that concentrations of zinc are elevated above background in the lowland surface water samples; however, the majority of the samples are below the NCAC 2B freshwater standard of 50 µg/L.

Three samples contained concentrations of zinc above 50 µg/L, “leachate”, “discharge”, and SW-12D. The “leachate” and “discharge” samples were collected in January 2009 during and closely following the release. It should be noted that the “discharge” location was re-sampled in July 2009 at its concentration had decreased to below the NCAC 2B standard. The only sample collected during the July 2009 sampling event, which was above 50 µg/L was SW-12D at 80.6 µg/L. Please note that SW-12 detected zinc at 37.6 µg/L, which is a difference of 43 µg/L between its duplicate sample. The increase in concentration may be due to turbidity in the sample and may not reflect an elevated concentration of zinc above the NCAC 2B standard.

7.3.3 Indicator Parameters

Biological oxygen demand, chemical oxygen demand, nitrate/nitrite, phosphorus, and sulfate were analyzed for in both the background and assessment surface water samples. Based on the analysis, it appears that many of the sample locations are above background concentrations for these constituents. Please see Table 2 for individual comparisons.

8. CONCLUSIONS AND RECOMMENDATIONS

The following sections discuss our conclusions and recommendations for the site based on our analysis of the field data.

8.1 Sediment Trap (ST-2)

Based on the analytical data for sediment trap ST-2, the volatile organics detected within the samples were detected randomly and in trace amounts and may be laboratory artifacts (acetone and MEK). The 11 µg/kg level of tetrachloroethene in the soil-9 2ft sample is substantially different than the non-detect (less than 0.2 µg/L) in the 1ft and 3ft samples. Thus the presence of tetrachloroethene in the 2ft sample is suspect. The metals detected within the sediment trap appear to be within background range except for arsenic and cobalt, which were slightly elevated. However, arsenic and cobalt occur naturally within the soil and were the only two metals that appeared to be elevated above background, which may not indicate impact from the release. Also, the indicator parameters analyzed for were within background range.

Since Lincoln County has already removed over a foot of soil within the sediment trap, S&ME recommends that no further remedial action or assessment be required within sediment trap ST-2.

8.2 Lowlands Area

Based on our visual observation and mapping of the area, the lowlands area is a catch basin of surface water from various sources: 1) the landfill property, 2) adjoining property to the west of the landfill property, and 3) Indian Creek. Washed down fencing along the southwestern property line that cross the unnamed tributaries to the west of the landfill indicates the magnitude of stormwater flow into the lowland area during rainfall events. Lincoln County has had to repair the fence on several occasions due to this problem. The lowlands area is also in the floodplain of Indian Creek and captures overflow during periods of flooding.

During the course of this investigation, S&ME has observed that the water level in lowlands area has not receded noticeable this year, as it has during previous years, most notably during the summer months or during times of drought. However, because of the exceptionally wet year, the lowlands area has been flushed on several occasions due to flooding and large rain events.

Based on our investigation, S&ME discovered that there are organic and non-organic constituents in the soil and surface water of the lowlands area above background concentrations. Due to the nature of the lowlands, some of these constituents may or may not be from the leachate release as discussed previously, none the less, they are present.

The highest concentrations of constituents detected in the soil were generally detected at locations soil-15 and soil-16, with the next highest levels in soil-17, in the eastern portion of the lowland area. This is also an area where there would be limited flow of water during flood events that would allow the collection of material such as clays and sediment from the flood and possibly floating contaminants and debris.

The highest concentrations of constituents detected in the surface water were generally detected in the central and north-central portions of the lowland area (sample locations "Leachate," SW-7, SW-9, SW-11, and SW-12). The highest metal concentrations were generally detected in sample SW-12D, and those levels were approximately 3 times higher than those detected in sample SW-12. This suggests that the duplicate sample contained more sediment collected during the sample collection resulting in elevated constituent concentrations. Concentrations of Nitrate-Nitrite (SW-12), copper (SW-12D), silver ("Leachate" and SW-12D) and zinc ("Leachate," "Discharge" January 2009, and SW-12D) exceeded surface water quality standards. None of the Indian Creek surface water samples contained constituents above surface water quality standards.

The presence of these constituents in the lowlands area may be attributed to the natural effect of the ecosystem. The lowlands area acts as a natural filter for stormwater in the area due to its large adsorptive surfaces from the living plants, organic decay, and sediment content. Entrapping not only artifacts from the leachate release, but also constituents brought in off site from surface water and stormwater. S&ME believes that the presence of these constituents is an indication that the lowland is also acting as a natural filter (and buffer) for Indian Creek. This conclusion is further substantiated by the analytical results from the surface water samples acquired from Indian Creek.
The very nature of the lowlands area allows for adsorption and dilution of both organic and non-organic constituents, and aeration of organic constituents during periods of flow and at the aerobic interface in stagnant areas. The potential for an active microbial population and high biological activity may further reduce contamination transforming common pollutants into less harmful products or essential nutrients.

Because the lowlands area is on the landfill property, as well as its discharge point, S&ME recommends the use of the lowlands area as a natural treatment area for any remaining constituents from the leachate release. S&ME proposes to monitor the effects

of the lowlands as a treatment area by incorporating a surface water monitoring location at the discharge of the lowlands in the Water Quality Monitoring Plan for the facility.

The sample location identified as "discharge" will be sampled semi-annually in the months of April and October during the scheduled monitoring events for the facility. S&ME proposes that the sample be analyzed for the same constituents as the leachate; Appendix I volatile organics and metals, biological oxygen demand (BOD), chemical oxygen demand (COD), nitrate-nitrite, phosphorus, sulfate, and total suspended solids (TSS).

The removal of soil and surface water in the area of the lowlands would require extensive work involving characterization of wetlands and permitting with the US Corps of Engineers, as well as potential disturbance and reconstruction of the identified wetlands, which S&ME believes to be unnecessary given the concentrations of the constituents detected. Disturbance of the lowland area may also have more detrimental affects to the ecological and surface water system than leaving the lowlands undisturbed. It is also likely that the lowlands area will act as a treatment system in the removal and destruction of the detected constituents. Treatment of leachate and wastewater utilizing natural and constructed systems as found in the lowlands area is an environmentally sustainable treatment option, and it serves no purpose to disturb an area which will naturally attenuate any constituents remaining from the leachate release, as well as existing and future constituents from stormwater runoff prior to entering Indian Creek. S&ME requests that monitored natural attenuation be the selected remedy for the site.

8.3 Monitoring Wells

As per the approved Assessment Plan, S&ME proposed to install 3 groundwater monitoring wells in-between sediment trap ST-2 and Indian Creek and its tributaries. S&ME no longer believes that these wells are necessary. Based on the assessment, it appears that the leachate did not penetrate the groundwater table in-between the sediment trap and the lowlands. The leachate remained as overland flow into the lowlands and was quickly pumped back into the tanks.

Since the lowlands area has remained flooded this year, the lowlands is the groundwater discharge for that area of the property and it is not likely that the leachate release penetrated the groundwater table at or beyond the lowlands area. Even if monitoring wells were installed in-between the lowlands and Indian Creek, given the nature of the area, the source of any "contamination" may not be discernable as from the landfill or from off property.

Because the lowlands is an apparent groundwater discharge feature for the area, the proposed surface water monitoring location at the discharge of the lowlands should effectively monitor if contamination, whether due to surface water or groundwater, is leaving the property. Thus, S&ME requests that the monitoring wells not be required at this time.

TABLES

Table 1 – Soil Analytical Results
Table 2 – Surface Water Analytical Results
Table 3 – Historical Leachate Data (2007-2009)

Table 1 - Soil Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Sample ID and Date								
		Soil - 1	Soil - 2	Soil - 3	Soil - 4	Soil - 5	Soil -6	Soil - 7		Soil -8
		01.23.09	01.23.09	01.23.09	01.23.09	01.23.09	01.23.09	01.23.09	07.07.09	07.07.09
Classical Chemistry Compounds										
% Solids	%	**76.2**	**77.8**	**62.3**	**61.4**	**71.9**	**46.4**	**75.7**	**56.4**	**80.2**
Nitrate-Nitrite - N (soluble)	mg/kg	**1.6**	**0.66**	**0.75**	**0.62**	**0.45**	**0.79**	**0.27**	**0.58 J**	**4.4**
pH	su	**6.31**	**5.83**	**5.42**	**5.51**	**6.01**	**5.71**	**4.60**	**5.8**	**7.5**
Phosphorus	mg/kg	**34**	**1.6**	**1.8**	**4.4**	**85**	**3.9**	**0.69**	**730 D**	**330 D**
Sulfate (soluble)	mg/kg	**73 B**	**57 B**	**79 B**	**32 B**	**10 BJ**	**18 BJ**	**41 B**	**49 J**	**52 J**
Volatile Organic Compounds										
Acetone	µg/kg	<5.8	**55**	**50**	**5.2 J**	**6.5 J**	**38**	**160**	<2.0	<1.0
2-Butanone (MEK)	µg/kg	**3.4 J**	**65**	**58**	<1.5	<1.5	<2.2	**9.9**	<1.0	<0.8
Carbon Disulfide	µg/kg	<1.1	<0.78	<1.2	<0.81	<0.81	<1.2	<1.2	<0.7	<0.4
Ethylbenzene	µg/kg	<1.4	<1.0	<1.6	<1.0	<1.1	<1.6	<1.6	<0.4	<0.2
2-Hexanone	µg/kg	<1.1	<0.78	<1.2	<0.81	<0.81	<1.2	<1.2	<1.0	<0.7
m&p Xylenes	µg/kg	<2.5	<1.7	<2.7	<1.8	<1.8	<2.7	<2.7	<0.7	**0.4 J**
o Xylene	µg/kg	<2.5	<1.7	<2.7	<1.8	<1.8	<2.7	<2.7	<0.4	<0.2
Tetrachloroethene	µg/kg	<2.0	<1.4	<2.2	<1.4	<1.4	<2.2	<2.2	<0.5	<0.3
Toluene	µg/kg	<1.4	<1.0	<1.6	<1.0	<1.1	<1.6	<1.6	<0.4	**0.5 J**
Metals										
Antimony	mg/kg	**0.35 J**	**0.23 J**	<0.28	<0.29	<0.25	<0.38	<0.24	**1.6 J**	**1.21 J**
Arsenic	mg/kg	**4.4**	**3.8**	**7.2**	**4.8**	**5.2**	**6.0**	**4.0**	**4.92**	**2.2**
Barium	mg/kg	**39**	**70**	**110**	**100**	**93**	**110**	**52**	**114**	**36.2**
Beryllium	mg/kg	**0.62**	**0.95**	**1.6**	**1.0**	**0.81**	**1.5**	**0.66**	**1.31**	**0.529**
Cadmium	mg/kg	**0.10 J**	**0.14**	**0.19**	**0.19**	**0.20**	**0.22**	**0.12 J**	**0.151**	**0.0475 J**
Chromium	mg/kg	**31**	**25**	**26**	**33**	**48**	**49**	**39**	**41.8 B**	**36.2 B**
Cobalt	mg/kg	**6.4**	**9.3**	**15**	**8.1**	**7.5**	**9.3**	**5.4**	**7.61**	**4.49**
Copper	mg/kg	**11**	**13**	**22**	**16**	**16**	**18**	**11**	**15 B**	**13.1 B**
Lead	mg/kg	**13**	**14**	**22**	**19**	**16**	**22**	**21**	**28**	**18.3**
Nickel	mg/kg	**8.7**	**11**	**18**	**15**	**19**	**21**	**15**	**13**	**10.6**
Silver	mg/kg	<0.055	<0.054	<0.067	<0.068	<0.058	<0.090	<0.055	**0.345 J**	<0.0673
Vanadium	mg/kg	**64**	**59**	**69**	**63**	**61**	**78**	**57**	**68.2**	**57.2**
Zinc	mg/kg	**28**	**32**	**72**	**48**	**69**	**50**	**27**	**35.5**	**19**

Table 1 - Soil Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Sample ID and Date								
		Soil-9 1ft	Soil-9 1ftD	Soil-9 2ft	Soil-9 3ft	Soil -10	Soil -11	Soil -12	Soil -13	Soil-13D
		07.08.09	07.08.09	07.08.09	07.08.09	07.07.09	07.07.09	07.07.09	07.08.09	07.08.09
Classical Chemistry Compounds										
% Solids	%	**82.8**	**81.3**	**73.6**	**86.3**	**84.7**	**77.8**	**62.9**	**54.5**	**60.3**
Nitrate-Nitrite - N (soluble)	mg/kg	<0.25	<0.26	<0.29	<2.4	<0.25	**1.2 J**	**0.87 J**	<0.35	**1.1 J**
pH	su	**7.4**	**7.6**	**7.2**	**5.9**	**8.0**	**6.3**	**6.2**	**5.5**	**5.7**
Phosphorus	mg/kg	**510 D**	**570 D**	**410 D**	**260**	**340 D**	**560 D**	**700 D**	**900 D**	**830 D**
Sulfate (soluble)	mg/kg	**32 J**	**30 J**	**23 J**	**33 J**	**48 J**	**28 J**	**34 J**	**45 J**	**46 J**
Volatile Organic Compounds										
Acetone	µg/kg	**9**	<1	**7**	**65**	<1	<2	**11**	**100**	**150**
2-Butanone (MEK)	µg/kg	<0.7	<0.6	<0.7	**13**	<0.7	<1	<1	<1	<1
Carbon Disulfide	µg/kg	<0.3	<0.3	<0.4	**0.5 J**	<0.3	<0.5	<0.5	<0.6	<0.6
Ethylbenzene	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.3	<0.3	<0.3
2-Hexanone	µg/kg	<0.6	<0.6	<0.7	<0.6	<0.7	<1	<1	<1	<1
m&p Xylenes	µg/kg	**0.4 J**	<0.3	**0.6 J**	<0.3	**0.8 J**	<0.5	<0.5	<0.6	<0.6
o Xylene	µg/kg	<0.2	<0.2	<0.2	<0.2	**0.7 J**	<0.3	<0.3	<0.4	<0.4
Tetrachloroethene	µg/kg	<0.2	<0.2	**11**	<0.2	<0.3	<0.4	<0.4	**13**	<0.5
Toluene	µg/kg	**0.5 J**	<0.2	**0.6 J**	**0.3 J**	<0.2	<0.3	**0.6 J**	<0.3	<0.3
Metals										
Antimony	mg/kg	**1.04 J**	**1.73**	**0.813 J**	<0.301	**0.685 J**	<0.334	**2.42**	**4.06**	**4.25**
Arsenic	mg/kg	**11.7**	**10.8**	**10.3**	**2.96**	**6.98**	**4.77**	**4.59**	**5.07**	**5.03**
Barium	mg/kg	**54.3**	**75.4**	**50.5**	**28.5**	**51.7**	**113**	**118**	**170**	**153**
Beryllium	mg/kg	**1.67**	**1.92**	**1.77**	**0.369**	**1.21**	**0.888**	**1.34**	**1.71**	**1.71**
Cadmium	mg/kg	**0.222**	**0.221**	**0.191**	**0.042 J**	**0.148**	**0.184**	**0.297**	**0.492**	**0.522**
Chromium	mg/kg	**23.1 B**	**32.9 B**	**25.4 B**	**21.5 B**	**23.4 B**	**28.1 B**	**57 B**	**73 B**	**75.3 B**
Cobalt	mg/kg	**31.6**	**21.2**	**18.4**	**7.07**	**14.3**	**5.6**	**10.6**	**11.8**	**11.6**
Copper	mg/kg	**25.9 B**	**25.6 B**	**27.6 B**	**8.12 B**	**21.3 B**	**12.7 B**	**18.4 B**	**22.5 B**	**23.1 B**
Lead	mg/kg	**22.1**	**21.2**	**20.7**	**15.5**	**26.2**	**24.6**	**23.5**	**26.3**	**26.9**
Nickel	mg/kg	**23.9**	**23.5**	**18.1**	**4.73**	**12.7**	**8.07**	**16.4**	**23.6**	**23.4**
Silver	mg/kg	<0.0652	<0.0664	<0.0734	<0.0625	<0.0638	**0.143 J**	<0.0859	**0.144 J**	<0.0895
Vanadium	mg/kg	**53.1**	**56.8**	**53.7**	**40**	**52.4**	**54.8**	**76.3**	**88.2**	**90.2**
Zinc	mg/kg	**53.7**	**56.1**	**54.4**	**15.1**	**42.5**	**31.9**	**46.1**	**76.4**	**71.7**

Table 1 - Soil Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Sample ID and Date			
		Soil -14	Soil -15	Soil -16	Soil -17
		07.08.09	07.07.09	07.07.09	07.08.09
Classical Chemistry Compounds					
% Solids	%	**63**	**20.3**	**29.2**	**49.9**
Nitrate-Nitrite - N (soluble)	mg/kg	**0.54 J**	<1.0	<0.72	<0.37
pH	su	**6.0**	**6.3**	**6.3**	**6.2**
Phosphorus	mg/kg	**700 D**	**1300 D**	**1300 D**	**610 D**
Sulfate (soluble)	mg/kg	**42 J**	**120 J**	**110 J**	**38**
Volatile Organic Compounds					
Acetone	µg/kg	**130**	**560**	**1800**	**420**
2-Butanone (MEK)	µg/kg	**22**	**130**	**1400**	**200**
Carbon Disulfide	µg/kg	**0.6 J**	<2	**3 J**	**2 J**
Ethylbenzene	µg/kg	<0.2	<0.9	**5**	<0.4
2-Hexanone	µg/kg	<0.8	<3	**73**	**19**
m&p Xylenes	µg/kg	<0.4	<2	**1 J**	<0.7
o Xylene	µg/kg	<0.2	<0.9	**2 J**	<0.4
Tetrachloroethene	µg/kg	<0.3	<1	<1	<0.6
Toluene	µg/kg	**0.8 J**	**980 E**	**260**	**3**
Metals					
Antimony	mg/kg	**4.06**	**6.85**	**2.88 J**	**1.81 J**
Arsenic	mg/kg	**4.84**	**9.48**	**4.25**	**4.42**
Barium	mg/kg	**127**	**255**	**149**	**99.3**
Beryllium	mg/kg	**1.5**	**3.07**	**1.44**	**1.12**
Cadmium	mg/kg	**0.262**	**0.707**	**0.158 J**	**0.15**
Chromium	mg/kg	**67.3 B**	**126 B**	**63.6**	**52.6 B**
Cobalt	mg/kg	**10.2**	**18.8**	**8.47**	**6.69**
Copper	mg/kg	**20.8 B**	**45.1 B**	**31.8 B**	**19 B**
Lead	mg/kg	**25**	**54.1**	**32.7**	**23.9**
Nickel	mg/kg	**19.6**	**37.6**	**19.8**	**13.7**
Silver	mg/kg	**0.0976 J**	<0.265	**0.293**	<0.108
Vanadium	mg/kg	**83**	**176**	**90.5**	**77.8**
Zinc	mg/kg	**55.6**	**134**	**70.4**	**103**

Notes:
(1) % = percent
(2) mg/kg = milligrams per kilogram
(3) ug/kg = micrograms per kilogram
(4) su = standard unit
(5) B = constituent detected in method blank
(6) J = estimated result detected between MDL and PQL
(7) D = Analyte measured at dilution
(8) E = Estimated value above the calibration range of the instrument

Table 2 - Surface Water Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Surface Water Standard*	Sample ID and Date							
			Leachate	Discharge		SW-1	SW-2	SW-3		SW-4
			01.19.09	01.20.09	07.07.09	01.23.09	01.23.09	01.23.09	07.07.09	01.23.09
Field Measurements										
pH	SU	N/A	**6.05**	NT	**5.68**	NT	NT	NT	**5.16**	NT
Conductivity	mS/cm	N/A	**506**	**80**	**0.091**	NT	NT	NT	**0.113**	NT
Disolved Oxygen	mg/L	N/A	NT	NT	**4.46**	NT	NT	NT	**7.82**	NT
Temperature	°C	N/A	**7.2**	**3.1**	**23.5**	NT	NT	NT	**22.3**	NT
Classical Chemistry Compounds										
BOD, 5 day	mg/L	N/A	**>100**	**5.0**	**2.6**	<0.18	<0.18	<0.18	<2.0	**3.9**
COD	mg/L	N/A	**450**	**57**	**35**	<5.7	<5.7	<5.7	**4.4 J**	**12**
Nitrate-Nitrite - N	mg/L	2.7	**0.13**	**0.095**	**0.031 J**	**0.37**	**0.11**	**0.87**	**0.59**	**0.29**
Phosphorus	mg/L	N/A	**0.43**	**0.10 B**	**0.052 J**	<0.0048	**0.031**	**0.040**	**0.16**	**0.10**
Sulfate	mg/L	N/A	**15 B**	**5.2**	**2.3 J**	**2.4**	**7.4**	**4.7**	**5.2 J**	**3.2**
TSS	mg/L	N/A	**16**	**8.3**	**21**	**2.6**	**6.4**	**6.2**	**12**	**610**
Volatile Organic Compounds										
Acetone	µg/L	2000	**65**	<6.7	<1.5	<6.7	<6.7	<6.7	<1.5	<6.7
2-Butanone (MEK)	µg/L	160,000	**260**	**4.9 J**	<1.0	<2.0	<2.0	<2.0	<1.0	<2.0
Chloroform	µg/L	170	<0.33	<0.33	<0.20	<0.33	<0.33	<0.33	<0.20	<0.33
2-Hexanone	µg/L	NS	**0.63 J**	<0.27	<0.69	<0.27	<0.27	<0.27	<0.69	<0.27
4-Methyl-2-pentanone	µg/L	26	**2.3 J**	<0.31	<1.1	<0.31	<0.31	<0.31	<1.1	<0.31
Methylene chloride	µg/L	590	**0.66 J**	<0.33	<0.53	<0.33	<0.33	<0.33	<0.53	<0.33
Styrene	µg/L	NS	<0.12	<0.12	<0.26	<0.12	<0.12	<0.12	<0.26	<0.12
Toluene	µg/L	11	**0.61 J**	<0.33	<0.27	<0.33	<0.33	<0.33	<0.27	<0.33
Metals										
Antimony	µg/L	640	**1.50**	<0.0970	<0.680	**1.13**	<0.0970	<0.0970	<0.680	<0.0970
Arsenic	µg/L	10	**2.12**	**0.803 J**	<2.80	<0.261	**0.270 J**	<0.261	**3.73 J**	<0.261
Barium	µg/L	200,000	**339**	**37.1**	**50.1 J**	**19.4 B**	**48.2 B**	**22.1 B**	**22.7 J**	**22.7 B**
Beryllium	µg/L	6.5	**0.0840 J**	**0.0280 J**	<0.0750	<0.0280	**0.0480 J**	<0.0280	**0.0937 J**	**0.0320 J**
Cadmium	µg/L	2	**0.458**	<0.0590	<0.0870	<0.0590	<0.0590	<0.0590	<0.0870	<0.0590
Chromium	µg/L	50	**9.55**	**0.995 J**	**1.39 J**	<0.346	<0.346	<0.346	**1.51 J**	<0.346
Cobalt	µg/L	270	**9.86**	**2.90 J**	**2.36 J**	**0.302 J**	**2.23 J**	**0.702 J**	**0.597 J**	**1.13 J**
Copper	µg/L	7	**4.20**	**3.37**	**1.12 J**	**0.245 J**	**1.51**	**1.17**	**1.28 J**	**1.62**
Lead	µg/L	25	**2.45**	**1.09**	<1.60	**0.0840 J**	**0.558 J**	**0.0770 J**	<1.60	**0.796 J**
Nickel	µg/L	88	**10.2**	**2.16 J**	**0.830 J**	<0.277	**0.889 J**	**0.643 J**	**1.35 J**	**0.609 J**
Selenium	µg/L	5	<0.253	<0.253	<3.40	**0.599 J**	**0.391 J**	<0.253	<3.40	<0.253
Silver	µg/L	0.06	**0.242 J**	<0.0110	<0.960	<0.0110	<0.0110	<0.0110	<0.960	<0.0110
Thallium	µg/L	0.47	**0.279 J**	<0.0760	<0.0360	<0.0760	<0.0760	<0.0760	<0.0360	<0.0760
Vanadium	µg/L	NS	**4.94 J**	**4.30 J**	**2.53 J**	<1.46	**2.22 J**	<1.46	**3.19 J**	**2.88 J**
Zinc	µg/L	50	**148**	**54.4**	**47.5**	<1.45	**8.10 BJ**	**4.11 BJ**	**5.88 J**	**7.45 BJ**

Table 2 - Surface Water Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Surface Water Standard*	Sample ID and Date							
			SW-5	SW-6	SW-7	SW-8	SW-9	SW-10	SW-11	SW-12
			01.23.09	07.07.09	07.07.09	07.08.09	07.08.09	DRY	07.08.09	07.08.09
Field Measurements										
pH	SU	N/A	NT	**5.75**	**5.68**	**5.79**	**6.03**		**5.63**	**5.78**
Conductivity	mS/cm	N/A	NT	**0.099**	**0.123**	**0.299**	**0.115**		**0.221**	**0.176**
Disolved Oxygen	mg/L	N/A	NT	**4.51**	**3.23**	**5.37**	**4.2**		**3.31**	**4.2**
Temperature	°C	N/A	NT	**22.7**	**21.2**	**22.9**	**22.3**		**21.1**	**21.8**
Classical Chemistry Compounds										
BOD, 5 day	mg/L	N/A	**2.4**	**3**	**6.2**	**4.8**	**16**		**5.9**	**13**
COD	mg/L	N/A	**12**	**41**	**55**	**48**	**88**		**72**	**100**
Nitrate-Nitrite - N	mg/L	2.7	**0.058**	**0.031 J**	**0.032 J**	**0.047 J**	**0.14**		**0.12**	**2.8 D**
Phosphorus	mg/L	N/A	**0.38**	**0.11**	**0.13**	**0.13**	**0.26**		**0.26**	**0.49**
Sulfate	mg/L	N/A	**5.0**	**2.7 J**	**8.3 J**	**2.3 J**	**2.2 J**		**2.5 J**	**2.1 J**
TSS	mg/L	N/A	**260**	**30**	**14**	**350**	**88**		**84**	**190**
Volatile Organic Compounds										
Acetone	µg/L	2000	<6.7	**3.6 J**	**4.4 J**	<1.5	<1.5		<1.5	<1.5
2-Butanone (MEK)	µg/L	160,000	<2.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
Chloroform	µg/L	170	<0.33	<0.20	<0.20	<0.20	<0.20		<0.20	<0.20
2-Hexanone	µg/L	NS	<0.27	<0.69	<0.69	<0.69	<0.69		<0.69	<0.69
4-Methyl-2-pentanone	µg/L	26	<0.31	<1.1	<1.1	<1.1	<1.1		<1.1	<1.1
Methylene chloride	µg/L	590	<0.33	<0.53	<0.53	<0.53	<0.53		<0.53	<0.53
Styrene	µg/L	NS	<0.12	<0.26	<0.26	<0.26	<0.26		<0.26	<0.26
Toluene	µg/L	11	<0.33	<0.27	**1.4**	<0.27	**1.5**		**8.2**	**2.8**
Metals										
Antimony	µg/L	640	<0.0970	<0.680	<0.680	**1.02 J**	**5.57 J**		**2.43 J**	**0.970 J**
Arsenic	µg/L	10	<0.261	<2.80	**4.41 J**	<2.80	<2.80		**3.47 J**	<2.80
Barium	µg/L	200,000	**52.6 B**	**55.1 J**	**65.5 J**	**68.1 J**	**108**		**200**	**139**
Beryllium	µg/L	6.5	**0.175 J**	<0.0750	<0.0750	<0.0750	<0.0750		**0.172 J**	**0.161 J**
Cadmium	µg/L	2	<0.0590	<0.0870	<0.0870	<0.0870	<0.0870		**0.233 J**	**0.113 J**
Chromium	µg/L	50	**2.35 J**	**2.37 J**	**1.36 J**	**3.96 JB**	**2.66 JB**		**7.73 JB**	**6.86 JB**
Cobalt	µg/L	270	**6.30**	**3.04 J**	**3.42 J**	**2.95 J**	**7.51 J**		**14.7**	**12.7**
Copper	µg/L	7	**3.19**	**0.933 J**	**1.39 J**	**1.56 JB**	**1.88 JB**		**4.01 JB**	**3.58 JB**
Lead	µg/L	25	**3.30**	<1.60	**1.70 J**	<1.60	**2.73 J**		**5.64 J**	**5.71 J**
Nickel	µg/L	88	**1.77 J**	**1.33 J**	**2.04 J**	**2.94 J**	**2.63 J**		**4.74 J**	**3.57 J**
Selenium	µg/L	5	<0.253	**3.72 J**	<3.40	<3.40	<3.40		<3.40	<3.40
Silver	µg/L	0.06	<0.0110	<0.960	<0.960	<0.960	<0.960		<0.960	<0.960
Thallium	µg/L	0.47	**0.0960 J**	<0.0360	<0.0360	<0.0360	<0.0360		<0.0360	<0.0360
Vanadium	µg/L	NS	**8.74**	**3.03 J**	**1.29 J**	**5.87 J**	**3.56 J**		**9.92 J**	**8.67 J**
Zinc	µg/L	50	**11.2 B**	**9.04 J**	**20.2**	**39.1**	**43.7**		**37.4**	**37.6**

Table 2 - Surface Water Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Surface Water Standard*	Sample ID and Date							
			SW-12D	SW-13	SW-14	SW-15	SW-16	SW-16D	SW-17	Equip. Blank A
			07.08.09	DRY	07.07.09	07.07.09	07.08.09	07.08.09	07.08.09	07.07.09
Field Measurements										
pH	SU	N/A	NT		**6.01**	**5.89**	**5.73**	NT	**6.1**	NT
Conductivity	mS/cm	N/A	NT		**0.083**	**0.08**	**0.087**	NT	**0.084**	NT
Disolved Oxygen	mg/L	N/A	NT		**7.69**	**7.56**	**4.03**	NT	**7.08**	NT
Temperature	°C	N/A	NT		**23.4**	**22.3**	**22.3**	NT	**21.7**	NT
Classical Chemistry Compounds										
BOD, 5 day	mg/L	N/A	**23**		<2.0	<2.0	<2.0	<2.0	<2.0	NT
COD	mg/L	N/A	**210**		**9.1 J**	<3.1	**37**	**41**	**16**	NT
Nitrate-Nitrite - N	mg/L	2.7	**0.22**		**0.48**	**0.68**	**0.034 J**	**0.066 J**	**0.65**	NT
Phosphorus	mg/L	N/A	**0.89**		<0.050	**0.12**	**0.086 J**	**0.080 J**	**0.092 J**	NT
Sulfate	mg/L	N/A	**16 J**		**2.7 J**	**4.3 J**	**2.4 J**	**2.4 J**	**4.1 J**	NT
TSS	mg/L	N/A	**220**		**10**	**26**	**75**	**17**	**38**	NT
Volatile Organic Compounds										
Acetone	µg/L	2000	<1.5		<1.5	<1.5	<1.5	<1.5	<1.5	**41 J**
2-Butanone (MEK)	µg/L	160,000	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	µg/L	170	<0.20		<0.20	<0.20	<0.20	<0.20	<0.20	**3.0 J**
2-Hexanone	µg/L	NS	<0.69		<0.69	<0.69	<0.69	<0.69	<0.69	<0.69
4-Methyl-2-pentanone	µg/L	26	<1.1		<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Methylene chloride	µg/L	590	<0.53		<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
Styrene	µg/L	NS	<0.26		<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Toluene	µg/L	11	**4.9**		<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Metals										
Antimony	µg/L	640	**3.62 J**		<0.680	<0.680	<0.680	<0.680	<0.680	NT
Arsenic	µg/L	10	**3.26 J**		**3.04 J**	**3.76 J**	<2.80	<2.80	<2.80	NT
Barium	µg/L	200,000	**373**		**24.6 J**	**27 J**	**48.9 J**	**45.4 J**	**28.7 J**	NT
Beryllium	µg/L	6.5	**0.527 J**		<0.0750	<0.0750	<0.0750	<0.0750	<0.0750	NT
Cadmium	µg/L	2	**0.437 J**		<0.0870	**0.132 J**	**0.0983 J**	<0.0870	<0.0870	NT
Chromium	µg/L	50	**23.6 B**		**1.25 J**	**1.41 J**	**3.58 JB**	**2.35 JB**	**2.25 JB**	NT
Cobalt	µg/L	270	**36.3**		<0.580	<0.580	**1.82 J**	**1.96 J**	**0.654 J**	NT
Copper	µg/L	7	**15.5 B**		**0.950 J**	**1.43 J**	**1.92 JB**	**2.12 JB**	**2.13 JB**	NT
Lead	µg/L	25	**11.9**		<1.60	<1.60	**2.75 J**	**2.15 J**	<1.60	NT
Nickel	µg/L	88	**10.4 J**		**0.708 J**	**1.41 J**	**1.46 J**	**1.34 J**	**1.26 J**	NT
Selenium	µg/L	5	<3.40		<3.40	<3.40	<3.40	<3.40	<3.40	NT
Silver	µg/L	0.06	**1.05 J**		<0.960	<0.960	<0.960	<0.960	<0.960	NT
Thallium	µg/L	0.47	<0.0360		<0.0360	<0.0360	<0.0360	<0.0360	<0.0360	NT
Vanadium	µg/L	NS	**28**		**1.39 J**	**1.59 J**	**3.91 J**	**3.17 J**	**1.82 J**	NT
Zinc	µg/L	50	**80.6**		**3.77 J**	**3.60 J**	**37.4**	**29.1**	**8.91 J**	NT

Table 2 - Surface Water Analytical Results

January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Surface Water Standard*	Sample ID and Date	
			Equip. Blank B	Field Blank
			07.08.09	07.08.09
Field Measurements				
pH	SU	N/A	NT	NT
Conductivity	mS/cm	N/A	NT	NT
Disolved Oxygen	mg/L	N/A	NT	NT
Temperature	°C	N/A	NT	NT
Classical Chemistry Compounds				
BOD, 5 day	mg/L	N/A	NT	NT
COD	mg/L	N/A	NT	NT
Nitrate-Nitrite - N	mg/L	2.7	NT	NT
Phosphorus	mg/L	N/A	NT	NT
Sulfate	mg/L	N/A	NT	NT
TSS	mg/L	N/A	NT	NT
Volatile Organic Compounds				
Acetone	µg/L	2000	**59**	**42 J**
2-Butanone (MEK)	µg/L	160,000	**2.7 J**	<1.0
Chloroform	µg/L	170	**4**	**4.6 J**
2-Hexanone	µg/L	NS	<0.69	<0.69
4-Methyl-2-pentanone	µg/L	26	<1.1	<1.1
Methylene chloride	µg/L	590	<0.53	<0.53
Styrene	µg/L	NS	**0.52 J**	**0.76 J**
Toluene	µg/L	11	**0.76 J**	**0.75 J**
Metals				
Antimony	µg/L	640	NT	NT
Arsenic	µg/L	10	NT	NT
Barium	µg/L	200,000	NT	NT
Beryllium	µg/L	6.5	NT	NT
Cadmium	µg/L	2	NT	NT
Chromium	µg/L	50	NT	NT
Cobalt	µg/L	270	NT	NT
Copper	µg/L	7	NT	NT
Lead	µg/L	25	NT	NT
Nickel	µg/L	88	NT	NT
Selenium	µg/L	5	NT	NT
Silver	µg/L	0.06	NT	NT
Thallium	µg/L	0.47	NT	NT
Vanadium	µg/L	NS	NT	NT
Zinc	µg/L	50	NT	NT

Notes:
(1) mg/L = milligrams per liter
(2) µg/L = micrograms per liter
(3) * = 15A NCAC 2B Standard for Class C Freshwater Aquatic Life or Human Health
(4) NS = No Standard
(5) B = constituent detected in method blank
(6) J = estimated result detected between MDL and PQL
(7) D = sample was analyzed at dilution
(8) NT = not tested
(9) N/A = not applicable
(10) °C = degrees Celsius
(11) µS/cm = microsiemans per centimeter
(12) SU = pH standard units

Table 3 - Historical Leachate Data (2007 to 2009)

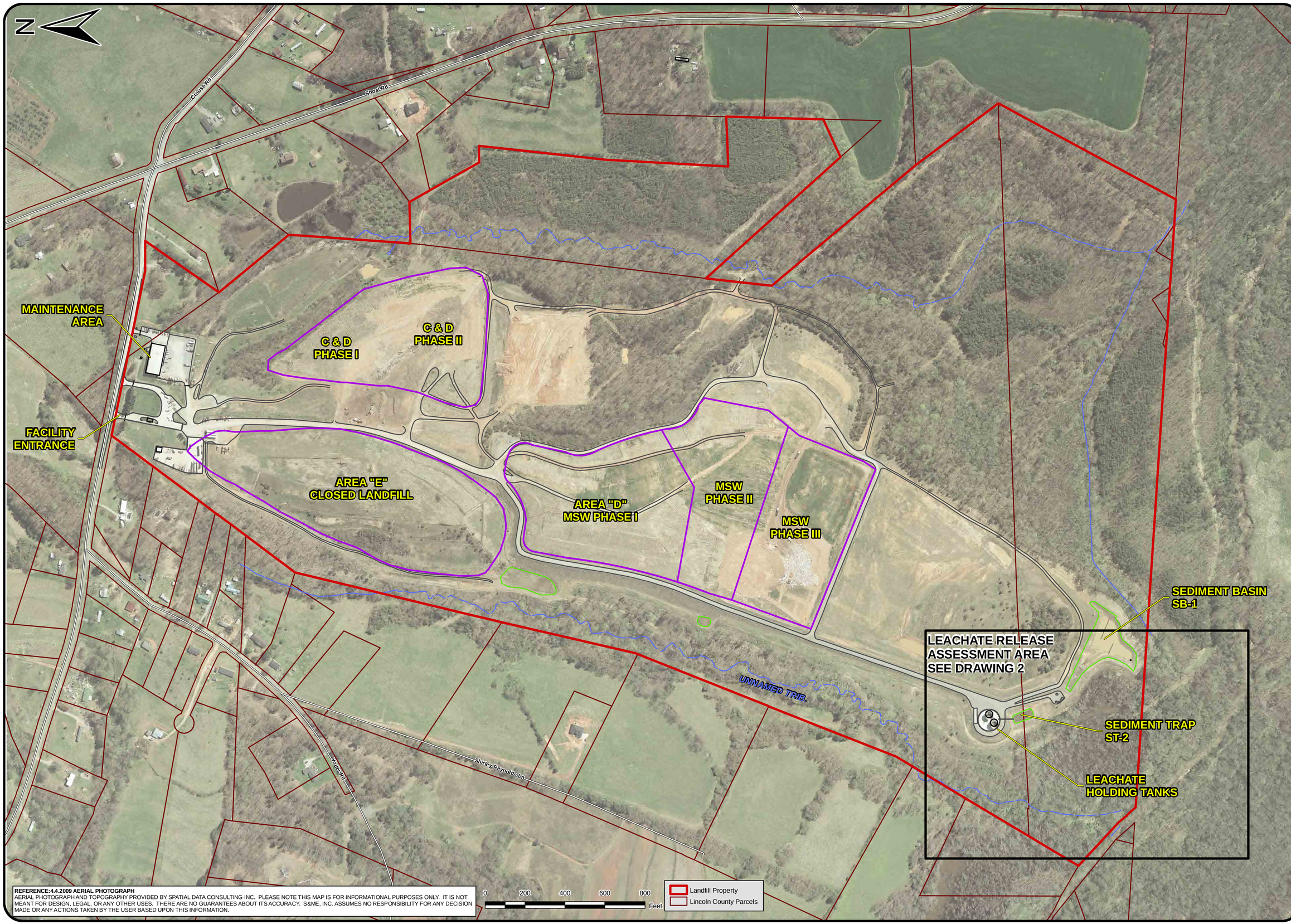
January 2009 Leachate Release
Lincoln County Landfill

Parameter	Units	Sample ID and Date				
		Lift Station				
		Apr-07	Oct-07	Apr-08	Oct-08	Apr-09
Classical Chemistry Compounds						
BOD	mg/L	**110**	**26**	**48**	**48**	**>210**
COD	mg/L	**600**	**600**	**430**	**630**	**2600**
Sulfate	mg/L	**2.7 J,D**	**25 J,D**	**2**	NT	NT
Sulfate as SO4	mg/L	**3.1 J**	NT	**2.0 J**	**5.3 J**	**20 J**
Phosphorous	mg/L	**2.5**	**6.0 D**	**0.48**	**25 D**	**1.8 D**
Nitrate as N	mg/L	**0.055 J**	<0.007	NT	<0.010	**0.052 J**
Nitrite as N	mg/L	<0.10	**0.12 J,B**	NT	**0.077 J**	<0.010
Nitrate/Nitrite as N	mg/L	**0.055 J**	**0.13**	<0.17	<0.017	**0.052 J**
Total Alkalinity	mg/L	**1600**	**1600**	NT	**960 D**	**980 D**
Total Suspended Solids	mg/L	**46**	**320**	**90**	**15000**	**11000**
Volatile Organic Compounds						
1,1-Dichloroethane	µg/L	**7 D**	<0.33	**0.91 J**	<0.33	<3.3
1,1,1-Trichloroethane	µg/L	**4.2 J,D**	<0.27	<0.27	<0.27	<2.7
1,2-Dichloroethane	µg/L	**12 D**	<0.46	**2.7**	<0.46	<6.5
1,4-Dichlorobenzene	µg/L	<0.75	<0.71	**1.6**	**0.71 J**	<3.8
2-Butanone	µg/L	**420 D**	<0.44	<4.5	<0.44	**2400 D**
2-Hexanone	µg/L	<1.2	<1.2	<1.6	<0.60	**170 D**
4-Methyl-2-pentanone	µg/L	**25 J**	**3.1 J,D**	**3.4 J**	**2 J**	**21 J,D**
cis-1,2,-Dichloroethene	µg/L	**4 J**	<0.3	**1.2**	<0.30	<3.6
trans-1,3-Dichloropropene	µg/L	<0.90	**1.8 D**	<0.24	<0.30	<3.8
Acetone	µg/L	**180 D**	**38 J,D**	**27 J**	**17 J**	**950 D**
Ethylbenzene	µg/L	**11 D**	<0.2	<0.22	<0.20	<2.0
Xylenes (total)	µg/L	**33 D**	<1.0	<0.86	**0.4 J**	<4.0
Methylene chloride	µg/L	**5.4 J,D**	**9.8 J,D**	<0.30	<0.24	**17 J,D**
Styrene	µg/L	**2.6 J,D**	<0.2	<0.38	<0.20	<2.6
Tetrachloroethene	µg/L	**9 D**	<0.36	<0.29	<0.36	<3.6
Toluene	µg/L	**110 D**	<0.2	<0.27	<0.20	**11 D**
Trichlorofluoromethane	µg/L	**1.9 J,D**	<0.28	<0.29	<0.25	<2.8
Metals						
Antimony	µg/L	**0.84 J**	<0.68	**0.77 J**	<0.68	**5.05 J**
Arsenic	µg/L	**34**	**28.3 B**	**29**	**16.7**	**23.1**
Barium	µg/L	**770**	**389 B**	**380**	**1530**	**484**
Chromium	µg/L	<2.0	<2.0	**6.2 J**	**122**	**36.6**
Cobalt	µg/L	**16.3**	**19.5**	**13**	**91.3**	**70.6**
Copper	µg/L	<0.60	<2.0	**1**	<1.60	<0.81
Lead	µg/L	**3 J**	**19.9**	<2.4	**68.4**	**9.1 J**
Nickel	µg/L	**26.1 J**	**55.3**	**30**	**108**	**54.5**
Selenium	µg/L	<2.0	<3.0	**8.8**	<2.7	**24**
Silver	µg/L	<2.0	<2.0	<2.5	<1.9	**6.6 J**
Thallium	µg/L	<0.044	**0.278 J**	<0.090	**1.95 J**	<0.036
Vanadium	µg/L	<1.0	**26.7**	<2.9	**200**	**10.3 J**
Zinc	µg/L	**4.3 J**	**505**	**34**	**139**	**566**

Notes:
(1) mg/L = milligrams per liter
(2) ug/L = micrograms per liter
(3) NT = Not Tested
(4) B = constituent detected in method blank
(5) J = estimated result detected between MDL and PQL
(6) D = sample was analyzed at dilution

FIGURES

Figure 1 of 2 – Site Map
Figure 2 of 2 – Sample Locations



REFERENCE:4.4.2009 AERIAL PHOTOGRAPH
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WWW.SMEINC.COM

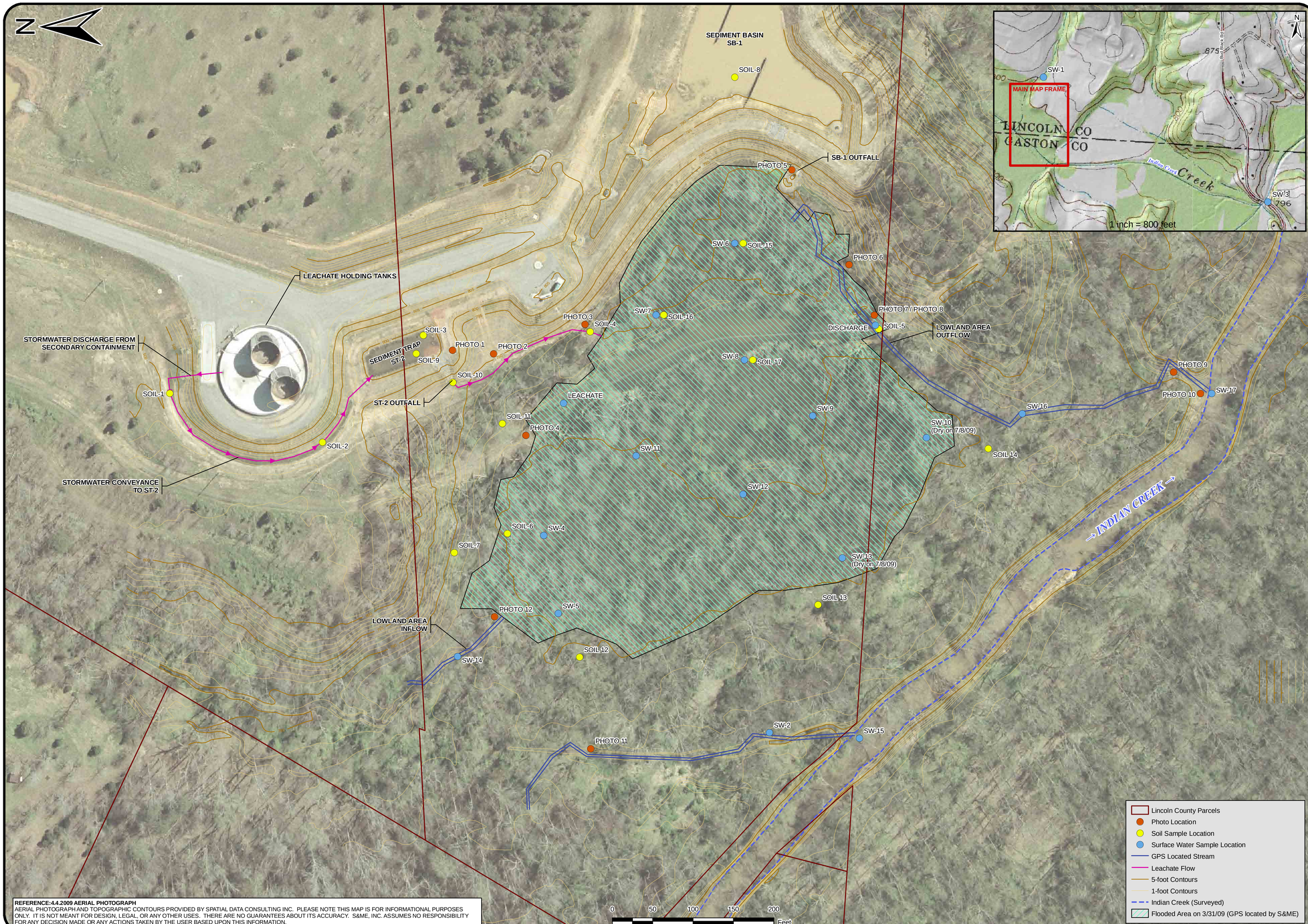
NO.	DATE	DESCRIPTION	BY

SITE MAP

LINCOLN COUNTY LANDFILL
LINCOLN COUNTY, N.C.

DRAWN BY: DDH	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NO: 1356-09-006	
SCALE: 1"=200'	DATE: 01.06.2010
DRAWING: 1	OF: 2

DRAWING PATH:



REFERENCE:4.4.2009 AERIAL PHOTOGRAPH
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WWW.SMEINC.COM

NO.	DATE	DESCRIPTION	BY

SAMPLE LOCATIONS
LEACHATE RELEASE ASSESSMENT

LINCOLN COUNTY LANDFILL
LINCOLN COUNTY, N.C.

DRAWN BY: DDH	CHECKED BY:
DESIGNED BY:	APPROVED BY:
PROJECT NO: 1356-09-006	
SCALE: 1"=50'	DATE: 01.06.2010
DRAWING: 2	OF: 2

DRAWING PATH:

APPENDIX I

Photographs

From Lowlands GPS Delineation

March 31, 2009

LINCOLN COUNTY LANDFILL
LEACHATE ASSESSMENT ACTIVITIES
PHOTOGRAPHS FROM GPS DELINEATION
S&ME PROJECT NO. 1356-09-006

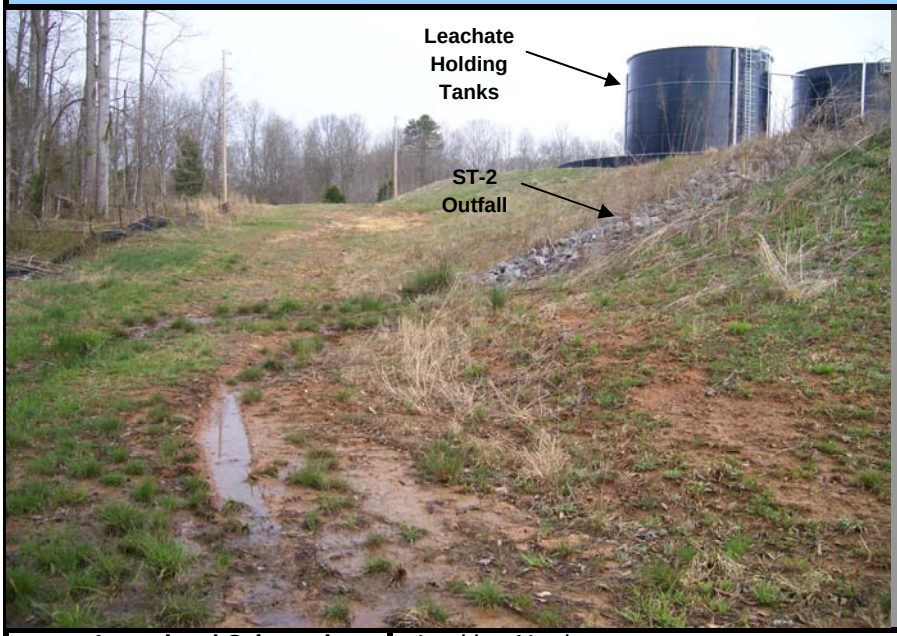
Photo 1

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking North
Remarks	Sediment Trap ST-2

Photo 2



Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking North
Remarks	Sediment Trap ST-2 Outfall

LINCOLN COUNTY LANDFILL
LEACHATE ASSESSMENT ACTIVITIES
PHOTOGRAPHS FROM GPS DELINEATION
S&ME PROJECT NO. 1356-09-006

Photo 3

N

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking West
Remarks	Lowlands area where ST-2 discharges.

Photo 4

N

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking South
Remarks	Northern edge of lowlands area along fence line.

Photo 5

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking West
Remarks	View from sediment basin SB-1 plunge pool toward lowlands area.

Photo 6

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking Northeast
Remarks	Drainage channel through lowlands which leads to discharge point for lowlands area.

Photo 7

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking North
Remarks	Southern edge of lowlands area at discharge. Discharge is to the left of the photo on other side of the fence line.

Photo 8

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking West
Remarks	Discharge from lowlands area.

Photo 9

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking East
Remarks	Backwater area of lowlands discharge channel near Indian Creek.

Photo 10

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking South
Remarks	Where lowlands discharge channel intersects with Indian Creek.

Photo 11

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking North
Remarks	Small tributary from north side of lowlands area which discharges to Indian Creek. Up gradient of release.

Photo 12

Date: 3/31/2009

Photographer: J. Petersen

Location / Orientation	Looking North
Remarks	Inflow to lowlands area from the north. Up gradient of release.

APPENDIX II

Analytical Data

Reports from Sampling Events Performed On:

January 19, 2009 (1 Report)
January 20, 2009 (1 Report)
January 23, 2009 (1 Report)
July 7, 2009 (2 Reports)
July 8, 2009 (2 Reports)

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Courtney Withers

Project Name: **Lincoln County Landfill**

Project Number: **1356-03-255B**

Lot Number: **KA20053**

Date Completed: **01/27/2009**

Michael Casalena
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

* K A 2 0 0 5 3 *

Case Narrative
S&ME, Inc.
Lot Number: KA20053

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
S&ME, Inc.
Lot Number: KA20053

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Leachate	Aqueous	01/19/2009 1800	01/20/2009
002	Trip Blank	Aqueous	01/20/2009 1715	01/20/2009

(2 samples)

Executive Summary
S&ME, Inc.
Lot Number: KA20053

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	Leachate	Aqueous	BOD, 5 day	SM 5210B	>100	5	mg/L	5
001	Leachate	Aqueous	COD	SM 5220D	450		mg/L	5
001	Leachate	Aqueous	Nitrate-Nitrite - N	353.2	0.13		mg/L	5
001	Leachate	Aqueous	Phosphorus	365.1	0.43		mg/L	5
001	Leachate	Aqueous	Sulfate	300.0	15	B	mg/L	5
001	Leachate	Aqueous	TSS	SM 2540D	16		mg/L	5
001	Leachate	Aqueous	Acetone	8260B	65		ug/L	6
001	Leachate	Aqueous	2-Butanone (MEK)	8260B	260		ug/L	6
001	Leachate	Aqueous	2-Hexanone	8260B	0.63	J	ug/L	6
001	Leachate	Aqueous	4-Methyl-2-pentanone	8260B	2.3	J	ug/L	6
001	Leachate	Aqueous	Methylene chloride	8260B	0.66	J	ug/L	6
001	Leachate	Aqueous	Toluene	8260B	0.61	J	ug/L	6
001	Leachate	Aqueous	Antimony	6020A	1.50		ug/L	8
001	Leachate	Aqueous	Arsenic	6020A	2.12		ug/L	8
001	Leachate	Aqueous	Barium	6020A	339		ug/L	8
001	Leachate	Aqueous	Beryllium	6020A	0.0840	J	ug/L	8
001	Leachate	Aqueous	Cadmium	6020A	0.458		ug/L	8
001	Leachate	Aqueous	Chromium	6020A	9.55		ug/L	8
001	Leachate	Aqueous	Cobalt	6020A	9.86		ug/L	8
001	Leachate	Aqueous	Copper	6020A	4.20		ug/L	8
001	Leachate	Aqueous	Lead	6020A	2.45		ug/L	8
001	Leachate	Aqueous	Nickel	6020A	10.2		ug/L	8
001	Leachate	Aqueous	Silver	6020A	0.242	J	ug/L	8
001	Leachate	Aqueous	Thallium	6020A	0.279	J	ug/L	8
001	Leachate	Aqueous	Vanadium	6020A	4.94	J	ug/L	8
001	Leachate	Aqueous	Zinc	6020A	148		ug/L	8
002	Trip Blank	Aqueous	Carbon disulfide	8260B	0.19	J	ug/L	9

(27 detections)

Inorganic non-metals

Client: **S&ME, Inc.**
Laboratory ID: **KA20053-001**
Description: **Leachate**
Matrix: **Aqueous**
Date Sampled: **01/19/2009 1800**
Date Received: **01/20/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/26/2009 1036	SEB	01/21/2009 0950	4826
1		(COD) SM 5220D	1	01/21/2009 1630	WD	01/21/2009 1330	
1		(Nitrate-Nitr) 353.2	1	01/21/2009 1408	MML		93785
1		(Phosphorus) 365.1	1	01/23/2009 1933	SLH	01/22/2009 1010	93827
1		(Sulfate) 300.0	1	01/22/2009 2244	DAS		93876
1		(TSS) SM 2540D	1	01/22/2009 1134	HCB		93813

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		**SM 5210B**	**>100**	**5**	**2.0**	**0.18**	**mg/L**	**1**
COD		**SM 5220D**	**450**		**10**	**5.7**	**mg/L**	**1**
Nitrate-Nitrite - N		**353.2**	**0.13**		**0.020**	**0.0013**	**mg/L**	**1**
Phosphorus	**7723-14-0**	**365.1**	**0.43**		**0.010**	**0.0048**	**mg/L**	**1**
Sulfate		**300.0**	**15**	**B**	**1.0**	**0.13**	**mg/L**	**1**
TSS		**SM 2540D**	**16**		**3.3**	**0.34**	**mg/L**	**1**

Footnote(s): 5-Final D.O. < 1.00 mg/L

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA20053-001**
Description: **Leachate**
Matrix: **Aqueous**
Date Sampled: **01/19/2009 1800**
Date Received: **01/20/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/21/2009 1845	DLB		93786

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**65**		**20**	**6.7**	**ug/L**	**1**
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**260**		**10**	**2.0**	**ug/L**	**1**
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	**591-78-6**	**8260B**	**0.63**	**J**	**10**	**0.27**	**ug/L**	**1**
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	**108-10-1**	**8260B**	**2.3**	**J**	**10**	**0.31**	**ug/L**	**1**
Methylene chloride	**75-09-2**	**8260B**	**0.66**	**J**	**1.0**	**0.33**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	**108-88-3**	**8260B**	**0.61**	**J**	**1.0**	**0.33**	**ug/L**	**1**
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

Footnote(s): 5-Final D.O. < 1.00 mg/L

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA20053-001**
Description: **Leachate**
Matrix: **Aqueous**
Date Sampled: **01/19/2009 1800**
Date Received: **01/20/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/21/2009 1845	DLB		93786

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		99	70-130

Footnote(s): 5-Final D.O. < 1.00 mg/L

PQL = Practical quantitation limit
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
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J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Laboratory ID: **KA20053-001**
Description: **Leachate**
Matrix: **Aqueous**
Date Sampled: **01/19/2009 1800**
Date Received: **01/20/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/26/2009 1917	FTS	01/22/2009 1540	93839
2	3005A	6020A	1	01/27/2009 1248	FTS	01/22/2009 1540	93839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	**7440-36-0**	**6020A**	**1.50**		**1.00**	**0.0970**	**ug/L**	**2**
Arsenic	**7440-38-2**	**6020A**	**2.12**		**1.00**	**0.261**	**ug/L**	**1**
Barium	**7440-39-3**	**6020A**	**339**		**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.0840**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	**7440-43-9**	**6020A**	**0.458**		**0.100**	**0.0590**	**ug/L**	**1**
Chromium	**7440-47-3**	**6020A**	**9.55**		**5.00**	**0.346**	**ug/L**	**1**
Cobalt	**7440-48-4**	**6020A**	**9.86**		**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**4.20**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**2.45**		**1.00**	**0.0470**	**ug/L**	**1**
Nickel	**7440-02-0**	**6020A**	**10.2**		**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	**7440-22-4**	**6020A**	**0.242**	**J**	**1.00**	**0.0110**	**ug/L**	**1**
Thallium	**7440-28-0**	**6020A**	**0.279**	**J**	**0.500**	**0.0760**	**ug/L**	**1**
Vanadium	**7440-62-2**	**6020A**	**4.94**	**J**	**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**148**		**10.0**	**1.45**	**ug/L**	**1**

Footnote(s): 5-Final D.O. < 1.00 mg/L

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E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA20053-002**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **01/20/2009 1715**
Date Received: **01/20/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/21/2009 1824	DLB		93786

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	**75-15-0**	**8260B**	**0.19**	**J**	**1.0**	**0.097**	**ug/L**	**1**
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
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Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA20053-002**
Description: **Trip Blank**
Matrix: **Aqueous**
Date Sampled: **01/20/2009 1715**
Date Received: **01/20/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/21/2009 1824	DLB		93786

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
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N = Recovery is out of criteria

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 85142

Client	S&ME, Inc.
Address	9751 Southern Pine Blvd
City / State / Zip Code	Charlotte / NC / 28273
Project Name	Lincoln County Landfill
Project No.	1356-03-255B
P.O. No.	48487
Report to Contact	Courtney Withers
Sampler's Signature	Courtney R. Withers
Printed Name	Courtney Withers
Telephone No. / Fax No. / E-mail	704-523-4726 / 704-525-3953
Waybill No.	
Quote No.	
Page	1 of 1
Lot No.	KA20053

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed.): APP I metals	APP I VOCs	BOD/TSS/Sulfate	COD/NO3+NO2/Phos	Remarks / Cooler I.D.
Leachate	1/19/09	1800	G	X			1	1	1	3			X	X	X	X	

Possible Hazard Identification: X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client X Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): X Standard ☐ Rush (Specify)

QC Requirements (Specify):

1. Relinquished by: Courtney R. Withers	Date: 1/20/09	Time: 0900	1. Received by: [signature]	Date: 1-20-09	Time: 09:30
2. Relinquished by: [signature]	Date: 1-20-09	Time: 1520	2. Received by: Mike Chapman	Date: 1.20.09	Time: 1520
3. Relinquished by: Mike Chapman	Date: 1.20.09	Time: 1715	3. Laboratory received by: Scott Moffett	Date: 1-20-09	Time: 1715

Comments:

LAB USE ONLY: Received on ice (Circle) Yes No Ice Pack

Receipt Temp. 2-6c

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 09-04-02

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 6

Page 1 of 1
Replaces Date: 09/22/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

Client: S & ME Cooler Inspected by/date: ECC / 1-20-09 SAM Lot #: KA20053

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 26 / ____ °C ____ / ____ °C ____ / ____ °C ____ / ____ °C
____ / ____ °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☑	No ☐	NA ☐	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐
SESI employee: _____ Date of response: _____
Comments: _____

Report of Analysis

S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Courtney Withers

Project Name: Lincoln County Landfill

Project Number: 1356-03-255B

Lot Number: KA21052

Date Completed: 01/27/2009

Michael Casalena
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

* K A 2 1 0 5 2 *

Case Narrative

S&ME, Inc.

Lot Number: KA21052

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary

S&ME, Inc.

Lot Number: KA21052

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Discharge	Aqueous	01/20/2009 1545	01/21/2009
002	Trip Blank	Aqueous	01/21/2009 1520	01/21/2009

(2 samples)

Executive Summary

S&ME, Inc.

Lot Number: KA21052

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	Discharge	Aqueous	BOD, 5 day	SM 5210B	5.0		mg/L	5
001	Discharge	Aqueous	COD	SM 5220D	57		mg/L	5
001	Discharge	Aqueous	Nitrate-Nitrite - N	353.2	0.095		mg/L	5
001	Discharge	Aqueous	Phosphorus	365.1	0.10	B	mg/L	5
001	Discharge	Aqueous	Sulfate	300.0	5.2		mg/L	5
001	Discharge	Aqueous	TSS	SM 2540D	8.3		mg/L	5
001	Discharge	Aqueous	2-Butanone (MEK)	8260B	4.9	J	ug/L	6
001	Discharge	Aqueous	Arsenic	6020A	0.803	J	ug/L	8
001	Discharge	Aqueous	Barium	6020A	37.1		ug/L	8
001	Discharge	Aqueous	Beryllium	6020A	0.0280	J	ug/L	8
001	Discharge	Aqueous	Chromium	6020A	0.995	J	ug/L	8
001	Discharge	Aqueous	Cobalt	6020A	2.90	J	ug/L	8
001	Discharge	Aqueous	Copper	6020A	3.37		ug/L	8
001	Discharge	Aqueous	Lead	6020A	1.09		ug/L	8
001	Discharge	Aqueous	Nickel	6020A	2.16	J	ug/L	8
001	Discharge	Aqueous	Vanadium	6020A	4.30	J	ug/L	8
001	Discharge	Aqueous	Zinc	6020A	54.4		ug/L	8

(17 detections)

Inorganic non-metals

Client: S&ME, Inc.
Description: Discharge
Date Sampled: 01/20/2009 1545
Date Received: 01/21/2009

Laboratory ID: KA21052-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/27/2009 1130	TNH	01/22/2009 0838	4828
1		(COD) SM 5220D	1	01/22/2009 1230	WD	01/22/2009 0900	
1		(Nitrate-Nitr) 353.2	1	01/22/2009 1423	MML		93912
1		(Phosphorus) 365.1	1	01/27/2009 1056	SLH	01/22/2009 1700	93831
1		(Sulfate) 300.0	1	01/27/2009 1527	DAS		94113
1		(TSS) SM 2540D	1	01/22/2009 1134	HCB		93813

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		SM 5210B	5.0		2.0	0.18	mg/L	1
COD		SM 5220D	57		10	5.7	mg/L	1
Nitrate-Nitrite - N		353.2	0.095		0.020	0.0013	mg/L	1
Phosphorus	7723-14-0	365.1	0.10	B	0.010	0.0048	mg/L	1
Sulfate		300.0	5.2		1.0	0.13	mg/L	1
TSS		SM 2540D	8.3		3.3	0.34	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Discharge
Date Sampled: 01/20/2009 1545
Date Received: 01/21/2009

Laboratory ID: KA21052-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/22/2009 1217	DLB		93833

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	4.9	J	10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Laboratory ID: KA21052-001
Description: Discharge
Matrix: Aqueous
Date Sampled: 01/20/2009 1545
Date Received: 01/21/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/22/2009 1217	DLB		93833

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

ICP-MS

Client: S&ME, Inc.
Description: Discharge
Date Sampled: 01/20/2009 1545
Date Received: 01/21/2009

Laboratory ID: KA21052-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/26/2009 1953	FTS	01/22/2009 1540	93839
2	3005A	6020A	1	01/27/2009 1328	FTS	01/22/2009 1540	93839

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	2
Arsenic	7440-38-2	6020A	0.803	J	1.00	0.261	ug/L	1
Barium	7440-39-3	6020A	37.1		5.00	0.0450	ug/L	1
Beryllium	7440-41-7	6020A	0.0280	J	0.400	0.0280	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	0.995	J	5.00	0.346	ug/L	1
Cobalt	7440-48-4	6020A	2.90	J	5.00	0.0290	ug/L	1
Copper	7440-50-8	6020A	3.37		1.00	0.148	ug/L	1
Lead	7439-92-1	6020A	1.09		1.00	0.0470	ug/L	1
Nickel	7440-02-0	6020A	2.16	J	5.00	0.277	ug/L	1
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	1
Vanadium	7440-62-2	6020A	4.30	J	5.00	1.46	ug/L	1
Zinc	7440-66-6	6020A	54.4		10.0	1.45	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Laboratory ID: KA21052-002
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 01/21/2009 1520
Date Received: 01/21/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/22/2009 1243	DLB		93833

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Laboratory ID: KA21052-002
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 01/21/2009 1520
Date Received: 01/21/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/22/2009 1243	DLB		93833

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 85077

Client: S&ME, Inc.
Address: 9751 Southern Pine Blvd
City: Charlotte State: NC Zip Code: 28273
Project Name: Lincoln County Landfill
Project No.: 13576-03-255B
P.O. No.: 48487

Report to Contact: Courtney Withers
Sampler's Signature: Courtney R. Withers
Printed Name: Courtney Withers

Telephone No. / Fax No. / E-mail: 704-523-4726/704-525-3953
Waybill No.:
Quote No.:
Page 1 of 1

Analysis (Attach list if more space is needed.)

Lot No.: KA21053

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	HNO3	HNO3	HCl	NaOH	5035 Kit	Analysis: Appl Metals	Appl VOC	BOD/TSS/Sulf	COD/Alkalinity/Phos	Remarks / Cooler I.D.
discharge	1/20/09	1545	G	X			K	1	1	3			X	X	X	X	

Possible Hazard Identification: X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client X Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): X Standard ☐ Rush (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Courtney R. Withers	1/21/09	0950	1. Received by: [signature]	1-21-09	09:50
2. Relinquished by: [signature]	1-21-09	15:20	2. Received by:		
3. Relinquished by:			3. Laboratory received by: Scott Moffitt	1-21-09	1520

Comments:

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp. 3.2°C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 6

Page 1 of 1
Replaces Date: 09/22/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

Client: S & ME Cooler Inspected by/date: ECL 1/21/09 Lot #: KA21052

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 3.2 °C / °C / °C / °C / °C / °C / °C / °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☑	No ☐	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☑	No ☐	NA ☐	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: _____ Date of response: _____

Comments: Trip blank not listed on COC
- SAM 1/21/09

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

S&ME, Inc.
9751 Southern Pine Blvd
Charlotte, NC 28273
Attention: Courtney Withers

Project Name: **Lincoln County Landfill**

Project Number: **1356-03-255B**

Lot Number: **KA24001**

Date Completed: **02/02/2009**

Michael Casalena
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
S&ME, Inc.
Lot Number: KA24001

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
S&ME, Inc.
Lot Number: KA24001

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SW-1 upgradient	Aqueous	01/23/2009 1530	01/24/2009
002	SW-2	Aqueous	01/23/2009 1700	01/24/2009
003	SW-3	Aqueous	01/23/2009 1245	01/24/2009
004	SW-4	Aqueous	01/23/2009 1600	01/24/2009
005	SW-5	Aqueous	01/23/2009 1605	01/24/2009
006	Trip Blank	Aqueous	01/24/2009 0950	01/24/2009
007	Soil-1	Solid	01/23/2009 1315	01/24/2009
008	Soil-2	Solid	01/23/2009 1320	01/24/2009
009	Soil-3	Solid	01/23/2009 1400	01/24/2009
010	Soil-4	Solid	01/23/2009 1420	01/24/2009
011	Soil-5	Solid	01/23/2009 1440	01/24/2009
012	Soil-6	Solid	01/23/2009 1630	01/24/2009
013	Soil-7	Solid	01/23/2009 1635	01/24/2009

(13 samples)

Executive Summary
S&ME, Inc.
Lot Number: KA24001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SW-1 upgradient	Aqueous	Nitrate-Nitrite - N	353.2	0.37		mg/L	8
001	SW-1 upgradient	Aqueous	Sulfate	300.0	2.4		mg/L	8
001	SW-1 upgradient	Aqueous	TSS	SM 2540D	2.6		mg/L	8
001	SW-1 upgradient	Aqueous	Antimony	6020A	1.13		ug/L	11
001	SW-1 upgradient	Aqueous	Barium	6020A	19.4	B	ug/L	11
001	SW-1 upgradient	Aqueous	Cobalt	6020A	0.302	J	ug/L	11
001	SW-1 upgradient	Aqueous	Copper	6020A	0.245	J	ug/L	11
001	SW-1 upgradient	Aqueous	Lead	6020A	0.0840	J	ug/L	11
001	SW-1 upgradient	Aqueous	Selenium	6020A	0.599	J	ug/L	11
002	SW-2	Aqueous	Nitrate-Nitrite - N	353.2	0.11		mg/L	12
002	SW-2	Aqueous	Phosphorus	365.1	0.031		mg/L	12
002	SW-2	Aqueous	Sulfate	300.0	7.4		mg/L	12
002	SW-2	Aqueous	TSS	SM 2540D	6.4		mg/L	12
002	SW-2	Aqueous	Arsenic	6020A	0.270	J	ug/L	15
002	SW-2	Aqueous	Barium	6020A	48.2	B	ug/L	15
002	SW-2	Aqueous	Beryllium	6020A	0.0480	J	ug/L	15
002	SW-2	Aqueous	Cobalt	6020A	2.23	J	ug/L	15
002	SW-2	Aqueous	Copper	6020A	1.51		ug/L	15
002	SW-2	Aqueous	Lead	6020A	0.558	J	ug/L	15
002	SW-2	Aqueous	Nickel	6020A	0.889	J	ug/L	15
002	SW-2	Aqueous	Selenium	6020A	0.391	J	ug/L	15
002	SW-2	Aqueous	Vanadium	6020A	2.22	J	ug/L	15
002	SW-2	Aqueous	Zinc	6020A	8.10	BJ	ug/L	15
003	SW-3	Aqueous	Nitrate-Nitrite - N	353.2	0.87		mg/L	16
003	SW-3	Aqueous	Phosphorus	365.1	0.040		mg/L	16
003	SW-3	Aqueous	Sulfate	300.0	4.7		mg/L	16
003	SW-3	Aqueous	TSS	SM 2540D	6.2		mg/L	16
003	SW-3	Aqueous	Barium	6020A	22.1	B	ug/L	19
003	SW-3	Aqueous	Cobalt	6020A	0.702	J	ug/L	19
003	SW-3	Aqueous	Copper	6020A	1.17		ug/L	19
003	SW-3	Aqueous	Lead	6020A	0.0770	J	ug/L	19
003	SW-3	Aqueous	Nickel	6020A	0.643	J	ug/L	19
003	SW-3	Aqueous	Zinc	6020A	4.11	BJ	ug/L	19
004	SW-4	Aqueous	BOD, 5 day	SM 5210B	3.9		mg/L	20
004	SW-4	Aqueous	COD	SM 5220D	12		mg/L	20
004	SW-4	Aqueous	Nitrate-Nitrite - N	353.2	0.29		mg/L	20
004	SW-4	Aqueous	Phosphorus	365.1	0.10		mg/L	20
004	SW-4	Aqueous	Sulfate	300.0	3.2		mg/L	20
004	SW-4	Aqueous	TSS	SM 2540D	610		mg/L	20
004	SW-4	Aqueous	Barium	6020A	22.7	B	ug/L	23
004	SW-4	Aqueous	Beryllium	6020A	0.0320	J	ug/L	23
004	SW-4	Aqueous	Cobalt	6020A	1.13	J	ug/L	23
004	SW-4	Aqueous	Copper	6020A	1.62		ug/L	23
004	SW-4	Aqueous	Lead	6020A	0.796	J	ug/L	23
004	SW-4	Aqueous	Nickel	6020A	0.609	J	ug/L	23

Executive Summary (Continued)

Lot Number: KA24001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	SW-4	Aqueous	Vanadium	6020A	2.88	J	ug/L	23
004	SW-4	Aqueous	Zinc	6020A	7.45	BJ	ug/L	23
005	SW-5	Aqueous	BOD, 5 day	SM 5210B	2.4		mg/L	24
005	SW-5	Aqueous	COD	SM 5220D	12		mg/L	24
005	SW-5	Aqueous	Nitrate-Nitrite - N	353.2	0.058		mg/L	24
005	SW-5	Aqueous	Phosphorus	365.1	0.38		mg/L	24
005	SW-5	Aqueous	Sulfate	300.0	5.0		mg/L	24
005	SW-5	Aqueous	TSS	SM 2540D	260		mg/L	24
005	SW-5	Aqueous	Barium	6020A	52.6	B	ug/L	27
005	SW-5	Aqueous	Beryllium	6020A	0.175	J	ug/L	27
005	SW-5	Aqueous	Chromium	6020A	2.35	J	ug/L	27
005	SW-5	Aqueous	Cobalt	6020A	6.30		ug/L	27
005	SW-5	Aqueous	Copper	6020A	3.19		ug/L	27
005	SW-5	Aqueous	Lead	6020A	3.30		ug/L	27
005	SW-5	Aqueous	Nickel	6020A	1.77	J	ug/L	27
005	SW-5	Aqueous	Thallium	6020A	0.0960	J	ug/L	27
005	SW-5	Aqueous	Vanadium	6020A	8.74		ug/L	27
005	SW-5	Aqueous	Zinc	6020A	11.2	B	ug/L	27
007	Soil-1	Solid	Nitrate-Nitrite - N (soluble)	353.2	1.6		mg/kg	30
007	Soil-1	Solid	Phosphorus	365.1	34		mg/kg	30
007	Soil-1	Solid	Sulfate (soluble)	300.0	73	B	mg/kg	30
007	Soil-1	Solid	2-Butanone (MEK)	8260B	3.4	J	ug/kg	31
007	Soil-1	Solid	Antimony	6010C	0.35	J	mg/kg	33
007	Soil-1	Solid	Arsenic	6010C	4.4		mg/kg	33
007	Soil-1	Solid	Barium	6010C	39		mg/kg	33
007	Soil-1	Solid	Beryllium	6010C	0.62		mg/kg	33
007	Soil-1	Solid	Cadmium	6010C	0.10	J	mg/kg	33
007	Soil-1	Solid	Chromium	6010C	31		mg/kg	33
007	Soil-1	Solid	Cobalt	6010C	6.4		mg/kg	33
007	Soil-1	Solid	Copper	6010C	11		mg/kg	33
007	Soil-1	Solid	Lead	6010C	13		mg/kg	33
007	Soil-1	Solid	Nickel	6010C	8.7		mg/kg	33
007	Soil-1	Solid	Vanadium	6010C	64		mg/kg	33
007	Soil-1	Solid	Zinc	6010C	28		mg/kg	33
008	Soil-2	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.66		mg/kg	34
008	Soil-2	Solid	Phosphorus	365.1	1.6		mg/kg	34
008	Soil-2	Solid	Sulfate (soluble)	300.0	57	B	mg/kg	34
008	Soil-2	Solid	Acetone	8260B	55		ug/kg	35
008	Soil-2	Solid	2-Butanone (MEK)	8260B	65		ug/kg	35
008	Soil-2	Solid	Antimony	6010C	0.23	J	mg/kg	37
008	Soil-2	Solid	Arsenic	6010C	3.8		mg/kg	37
008	Soil-2	Solid	Barium	6010C	70		mg/kg	37
008	Soil-2	Solid	Beryllium	6010C	0.95		mg/kg	37
008	Soil-2	Solid	Cadmium	6010C	0.14		mg/kg	37
008	Soil-2	Solid	Chromium	6010C	25		mg/kg	37
008	Soil-2	Solid	Cobalt	6010C	9.3		mg/kg	37
008	Soil-2	Solid	Copper	6010C	13		mg/kg	37
008	Soil-2	Solid	Lead	6010C	14		mg/kg	37

Executive Summary (Continued)

Lot Number: KA24001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
008	Soil-2	Solid	Nickel	6010C	11		mg/kg	37
008	Soil-2	Solid	Vanadium	6010C	59		mg/kg	37
008	Soil-2	Solid	Zinc	6010C	32		mg/kg	37
009	Soil-3	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.75		mg/kg	38
009	Soil-3	Solid	Phosphorus	365.1	1.8		mg/kg	38
009	Soil-3	Solid	Sulfate (soluble)	300.0	79	B	mg/kg	38
009	Soil-3	Solid	Acetone	8260B	50		ug/kg	39
009	Soil-3	Solid	2-Butanone (MEK)	8260B	58		ug/kg	39
009	Soil-3	Solid	Arsenic	6010C	7.2		mg/kg	41
009	Soil-3	Solid	Barium	6010C	110		mg/kg	41
009	Soil-3	Solid	Beryllium	6010C	1.6		mg/kg	41
009	Soil-3	Solid	Cadmium	6010C	0.19		mg/kg	41
009	Soil-3	Solid	Chromium	6010C	26		mg/kg	41
009	Soil-3	Solid	Cobalt	6010C	15		mg/kg	41
009	Soil-3	Solid	Copper	6010C	22		mg/kg	41
009	Soil-3	Solid	Lead	6010C	22		mg/kg	41
009	Soil-3	Solid	Nickel	6010C	18		mg/kg	41
009	Soil-3	Solid	Vanadium	6010C	69		mg/kg	41
009	Soil-3	Solid	Zinc	6010C	72		mg/kg	41
010	Soil-4	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.62		mg/kg	42
010	Soil-4	Solid	Phosphorus	365.1	4.4		mg/kg	42
010	Soil-4	Solid	Sulfate (soluble)	300.0	32	B	mg/kg	42
010	Soil-4	Solid	Acetone	8260B	5.2	J	ug/kg	43
010	Soil-4	Solid	Arsenic	6010C	4.8		mg/kg	45
010	Soil-4	Solid	Barium	6010C	100		mg/kg	45
010	Soil-4	Solid	Beryllium	6010C	1.0		mg/kg	45
010	Soil-4	Solid	Cadmium	6010C	0.19		mg/kg	45
010	Soil-4	Solid	Chromium	6010C	33		mg/kg	45
010	Soil-4	Solid	Cobalt	6010C	8.1		mg/kg	45
010	Soil-4	Solid	Copper	6010C	16		mg/kg	45
010	Soil-4	Solid	Lead	6010C	19		mg/kg	45
010	Soil-4	Solid	Nickel	6010C	15		mg/kg	45
010	Soil-4	Solid	Vanadium	6010C	63		mg/kg	45
010	Soil-4	Solid	Zinc	6010C	48		mg/kg	45
011	Soil-5	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.45		mg/kg	46
011	Soil-5	Solid	Phosphorus	365.1	85		mg/kg	46
011	Soil-5	Solid	Sulfate (soluble)	300.0	10	BJ	mg/kg	46
011	Soil-5	Solid	Acetone	8260B	6.5	J	ug/kg	47
011	Soil-5	Solid	Arsenic	6010C	5.2		mg/kg	49
011	Soil-5	Solid	Barium	6010C	93		mg/kg	49
011	Soil-5	Solid	Beryllium	6010C	0.81		mg/kg	49
011	Soil-5	Solid	Cadmium	6010C	0.20		mg/kg	49
011	Soil-5	Solid	Chromium	6010C	48		mg/kg	49
011	Soil-5	Solid	Cobalt	6010C	7.5		mg/kg	49
011	Soil-5	Solid	Copper	6010C	16		mg/kg	49
011	Soil-5	Solid	Lead	6010C	16		mg/kg	49
011	Soil-5	Solid	Nickel	6010C	19		mg/kg	49
011	Soil-5	Solid	Vanadium	6010C	61		mg/kg	49

Executive Summary (Continued)

Lot Number: KA24001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
011	Soil-5	Solid	Zinc	6010C	69		mg/kg	49
012	Soil-6	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.79		mg/kg	50
012	Soil-6	Solid	Phosphorus	365.1	3.9		mg/kg	50
012	Soil-6	Solid	Sulfate (soluble)	300.0	18	BJ	mg/kg	50
012	Soil-6	Solid	Acetone	8260B	38		ug/kg	51
012	Soil-6	Solid	Arsenic	6010C	6.0		mg/kg	53
012	Soil-6	Solid	Barium	6010C	110		mg/kg	53
012	Soil-6	Solid	Beryllium	6010C	1.5		mg/kg	53
012	Soil-6	Solid	Cadmium	6010C	0.22		mg/kg	53
012	Soil-6	Solid	Chromium	6010C	49		mg/kg	53
012	Soil-6	Solid	Cobalt	6010C	9.3		mg/kg	53
012	Soil-6	Solid	Copper	6010C	18		mg/kg	53
012	Soil-6	Solid	Lead	6010C	22		mg/kg	53
012	Soil-6	Solid	Nickel	6010C	21		mg/kg	53
012	Soil-6	Solid	Vanadium	6010C	78		mg/kg	53
012	Soil-6	Solid	Zinc	6010C	50		mg/kg	53
013	Soil-7	Solid	Nitrate-Nitrite - N (soluble)	353.2	0.27		mg/kg	54
013	Soil-7	Solid	Phosphorus	365.1	0.69		mg/kg	54
013	Soil-7	Solid	Sulfate (soluble)	300.0	41	B	mg/kg	54
013	Soil-7	Solid	Acetone	8260B	160		ug/kg	55
013	Soil-7	Solid	2-Butanone (MEK)	8260B	9.9		ug/kg	55
013	Soil-7	Solid	Arsenic	6010C	4.0		mg/kg	57
013	Soil-7	Solid	Barium	6010C	52		mg/kg	57
013	Soil-7	Solid	Beryllium	6010C	0.66		mg/kg	57
013	Soil-7	Solid	Cadmium	6010C	0.12	J	mg/kg	57
013	Soil-7	Solid	Chromium	6010C	39		mg/kg	57
013	Soil-7	Solid	Cobalt	6010C	5.4		mg/kg	57
013	Soil-7	Solid	Copper	6010C	11		mg/kg	57
013	Soil-7	Solid	Lead	6010C	21		mg/kg	57
013	Soil-7	Solid	Nickel	6010C	15		mg/kg	57
013	Soil-7	Solid	Vanadium	6010C	57		mg/kg	57
013	Soil-7	Solid	Zinc	6010C	27		mg/kg	57

(173 detections)

Inorganic non-metals

Client: **S&ME, Inc.**
Description: **SW-1 upgradient**
Date Sampled: **01/23/2009 1530**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/29/2009 1250	SEB	01/24/2009 1025	4835
1		(COD) SM 5220D	1	01/26/2009 1600	WD	01/26/2009 1300	
1		(Nitrate-Nitr) 353.2	1	01/27/2009 1545	MML		94108
1		(Phosphorus) 365.1	1	01/30/2009 1318	RLM	01/28/2009 1700	94177
1		(Sulfate) 300.0	1	01/28/2009 1152	DAS		94166
1		(TSS) SM 2540D	1	01/27/2009 1124	HCB		94069

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		SM 5210B	ND		2.0	0.18	mg/L	1
COD		SM 5220D	ND		10	5.7	mg/L	1
Nitrate-Nitrite - N		**353.2**	**0.37**		**0.020**	**0.0013**	**mg/L**	**1**
Phosphorus	7723-14-0	365.1	ND		0.010	0.0048	mg/L	1
Sulfate		**300.0**	**2.4**		**1.0**	**0.13**	**mg/L**	**1**
TSS		**SM 2540D**	**2.6**		**1.3**	**0.34**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: SW-1 upgradient
Date Sampled: 01/23/2009 1530
Date Received: 01/24/2009

Laboratory ID: KA24001-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1329	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA24001-001**
Description: **SW-1 upgradient**
Matrix: **Aqueous**
Date Sampled: **01/23/2009 1530**
Date Received: **01/24/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1329	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: S&ME, Inc.
Description: SW-1 upgradient
Date Sampled: 01/23/2009 1530
Date Received: 01/24/2009

Laboratory ID: KA24001-001
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 1840	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2101	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	**7440-36-0**	**6020A**	**1.13**		**1.00**	**0.0970**	**ug/L**	**1**
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**19.4**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.400	0.0280	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.302**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**0.245**	**J**	**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.0840**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	7440-02-0	6020A	ND		5.00	0.277	ug/L	1
Selenium	**7782-49-2**	**6020A**	**0.599**	**J**	**1.00**	**0.253**	**ug/L**	**1**
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	7440-62-2	6020A	ND		5.00	1.46	ug/L	1
Zinc	7440-66-6	6020A	ND		10.0	1.45	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Laboratory ID: KA24001-002
Description: SW-2
Matrix: Aqueous
Date Sampled: 01/23/2009 1700
Date Received: 01/24/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/29/2009 1250	SEB	01/24/2009 1025	4835
1		(COD) SM 5220D	1	01/26/2009 1600	WD	01/26/2009 1300	
1		(Nitrate-Nitr) 353.2	1	01/27/2009 1547	MML		94108
1		(Phosphorus) 365.1	1	01/30/2009 1318	RLM	01/28/2009 1700	94177
1		(Sulfate) 300.0	1	01/28/2009 1215	DAS		94166
1		(TSS) SM 2540D	1	01/27/2009 1124	HCB		94069

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		SM 5210B	ND		2.0	0.18	mg/L	1
COD		SM 5220D	ND		10	5.7	mg/L	1
Nitrate-Nitrite - N		**353.2**	**0.11**		**0.020**	**0.0013**	**mg/L**	**1**
Phosphorus	**7723-14-0**	**365.1**	**0.031**		**0.010**	**0.0048**	**mg/L**	**1**
Sulfate		**300.0**	**7.4**		**1.0**	**0.13**	**mg/L**	**1**
TSS		**SM 2540D**	**6.4**		**1.3**	**0.34**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: SW-2
Date Sampled: 01/23/2009 1700
Date Received: 01/24/2009

Laboratory ID: KA24001-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1350	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA24001-002**
Description: **SW-2**
Matrix: **Aqueous**
Date Sampled: **01/23/2009 1700**
Date Received: **01/24/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1350	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: S&ME, Inc.
Description: SW-2
Date Sampled: 01/23/2009 1700
Date Received: 01/24/2009

Laboratory ID: KA24001-002
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 1921	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2142	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	**7440-38-2**	**6020A**	**0.270**	**J**	**1.00**	**0.261**	**ug/L**	**1**
Barium	**7440-39-3**	**6020A**	**48.2**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.0480**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**2.23**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.51**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.558**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**0.889**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	**7782-49-2**	**6020A**	**0.391**	**J**	**1.00**	**0.253**	**ug/L**	**1**
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	**7440-62-2**	**6020A**	**2.22**	**J**	**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**8.10**	**BJ**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Laboratory ID: KA24001-003
Description: SW-3
Matrix: Aqueous
Date Sampled: 01/23/2009 1245
Date Received: 01/24/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/29/2009 1250	SEB	01/24/2009 1025	4835
1		(COD) SM 5220D	1	01/26/2009 1600	WD	01/26/2009 1300	
1		(Nitrate-Nitr) 353.2	1	01/27/2009 1548	MML		94108
1		(Phosphorus) 365.1	1	01/30/2009 1415	RLM	01/28/2009 1700	94177
1		(Sulfate) 300.0	1	01/28/2009 1237	DAS		94166
1		(TSS) SM 2540D	1	01/27/2009 1124	HCB		94069

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		SM 5210B	ND		2.0	0.18	mg/L	1
COD		SM 5220D	ND		10	5.7	mg/L	1
Nitrate-Nitrite - N		**353.2**	**0.87**		**0.020**	**0.0013**	**mg/L**	**1**
Phosphorus	**7723-14-0**	**365.1**	**0.040**		**0.010**	**0.0048**	**mg/L**	**1**
Sulfate		**300.0**	**4.7**		**1.0**	**0.13**	**mg/L**	**1**
TSS		**SM 2540D**	**6.2**		**2.0**	**0.34**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA24001-003**
Description: **SW-3**
Matrix: **Aqueous**
Date Sampled: **01/23/2009 1245**
Date Received: **01/24/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1412	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Laboratory ID: KA24001-003
Description: SW-3
Matrix: Aqueous
Date Sampled: 01/23/2009 1245
Date Received: 01/24/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1412	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: **S&ME, Inc.**
Description: **SW-3**
Date Sampled: **01/23/2009 1245**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 1951	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2212	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**22.1**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	7440-41-7	6020A	ND		0.400	0.0280	ug/L	1
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**0.702**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.17**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.0770**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**0.643**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	7440-62-2	6020A	ND		5.00	1.46	ug/L	1
Zinc	**7440-66-6**	**6020A**	**4.11**	**BJ**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Description: SW-4
Date Sampled: 01/23/2009 1600
Date Received: 01/24/2009

Laboratory ID: KA24001-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/29/2009 1250	SEB	01/24/2009 1025	4835
1		(COD) SM 5220D	1	01/26/2009 1600	WD	01/26/2009 1300	
1		(Nitrate-Nitr) 353.2	1	01/27/2009 1549	MML		94108
1		(Phosphorus) 365.1	1	01/30/2009 1415	RLM	01/28/2009 1700	94177
1		(Sulfate) 300.0	1	01/28/2009 1300	DAS		94166
1		(TSS) SM 2540D	1	01/27/2009 1124	HCB		94069

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		SM 5210B	3.9		2.0	0.18	mg/L	1
COD		SM 5220D	12		10	5.7	mg/L	1
Nitrate-Nitrite - N		353.2	0.29		0.020	0.0013	mg/L	1
Phosphorus	7723-14-0	365.1	0.10		0.010	0.0048	mg/L	1
Sulfate		300.0	3.2		1.0	0.13	mg/L	1
TSS		SM 2540D	610		20	0.34	mg/L	1

POL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < POL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: SW-4
Date Sampled: 01/23/2009 1600
Date Received: 01/24/2009

Laboratory ID: KA24001-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1434	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: SW-4
Date Sampled: 01/23/2009 1600
Date Received: 01/24/2009

Laboratory ID: KA24001-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1434	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: S&ME, Inc.
Description: SW-4
Date Sampled: 01/23/2009 1600
Date Received: 01/24/2009

Laboratory ID: KA24001-004
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 2001	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2222	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**22.7**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.0320**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	7440-47-3	6020A	ND		5.00	0.346	ug/L	1
Cobalt	**7440-48-4**	**6020A**	**1.13**	**J**	**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**1.62**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**0.796**	**J**	**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**0.609**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	7440-28-0	6020A	ND		0.500	0.0760	ug/L	2
Vanadium	**7440-62-2**	**6020A**	**2.88**	**J**	**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**7.45**	**BJ**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Description: SW-5
Date Sampled: 01/23/2009 1605
Date Received: 01/24/2009

Laboratory ID: KA24001-005
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(BOD, 5 day) SM 5210B	1	01/29/2009 1250	SEB	01/24/2009 1025	4835
1		(COD) SM 5220D	1	01/26/2009 1600	WD	01/26/2009 1300	
1		(Nitrate-Nitr) 353.2	1	01/27/2009 1550	MML		94108
1		(Phosphorus) 365.1	1	01/30/2009 1415	RLM	01/28/2009 1700	94177
1		(Sulfate) 300.0	1	01/29/2009 0119	DAS		94252
1		(TSS) SM 2540D	1	01/27/2009 1124	HCB		94069

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
BOD, 5 day		SM 5210B	2.4		2.0	0.18	mg/L	1
COD		SM 5220D	12		10	5.7	mg/L	1
Nitrate-Nitrite - N		353.2	0.058		0.020	0.0013	mg/L	1
Phosphorus	7723-14-0	365.1	0.38		0.010	0.0048	mg/L	1
Sulfate		300.0	5.0		1.0	0.13	mg/L	1
TSS		SM 2540D	260		14	0.34	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Laboratory ID: KA24001-005
Description: SW-5
Matrix: Aqueous
Date Sampled: 01/23/2009 1605
Date Received: 01/24/2009

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1455	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **SW-5**
Date Sampled: **01/23/2009 1605**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1455	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-MS

Client: S&ME, Inc.
Description: SW-5
Date Sampled: 01/23/2009 1605
Date Received: 01/24/2009

Laboratory ID: KA24001-005
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6020A	1	01/30/2009 2011	FTS	01/26/2009 1305	93975
2	3005A	6020A	1	02/01/2009 2232	FTS	01/26/2009 1305	93975

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6020A	ND		1.00	0.0970	ug/L	1
Arsenic	7440-38-2	6020A	ND		1.00	0.261	ug/L	1
Barium	**7440-39-3**	**6020A**	**52.6**	**B**	**5.00**	**0.0450**	**ug/L**	**1**
Beryllium	**7440-41-7**	**6020A**	**0.175**	**J**	**0.400**	**0.0280**	**ug/L**	**1**
Cadmium	7440-43-9	6020A	ND		0.100	0.0590	ug/L	1
Chromium	**7440-47-3**	**6020A**	**2.35**	**J**	**5.00**	**0.346**	**ug/L**	**1**
Cobalt	**7440-48-4**	**6020A**	**6.30**		**5.00**	**0.0290**	**ug/L**	**1**
Copper	**7440-50-8**	**6020A**	**3.19**		**1.00**	**0.148**	**ug/L**	**1**
Lead	**7439-92-1**	**6020A**	**3.30**		**1.00**	**0.0470**	**ug/L**	**2**
Nickel	**7440-02-0**	**6020A**	**1.77**	**J**	**5.00**	**0.277**	**ug/L**	**1**
Selenium	7782-49-2	6020A	ND		1.00	0.253	ug/L	1
Silver	7440-22-4	6020A	ND		1.00	0.0110	ug/L	1
Thallium	**7440-28-0**	**6020A**	**0.0960**	**J**	**0.500**	**0.0760**	**ug/L**	**2**
Vanadium	**7440-62-2**	**6020A**	**8.74**		**5.00**	**1.46**	**ug/L**	**1**
Zinc	**7440-66-6**	**6020A**	**11.2**	**B**	**10.0**	**1.45**	**ug/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Trip Blank
Date Sampled: 01/24/2009 0950
Date Received: 01/24/2009

Laboratory ID: KA24001-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1516	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	1.2	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	0.13	ug/L	1
Bromochloromethane	74-97-5	8260B	ND		1.0	0.16	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	0.33	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	0.66	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	0.81	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	2.0	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		1.0	0.097	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	0.14	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	0.33	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	0.47	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	0.33	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	0.35	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	0.33	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1.0	0.30	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		1.0	0.35	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	0.83	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	0.33	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	0.33	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	0.13	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	0.15	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	0.16	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	0.12	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	0.21	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	0.19	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	0.092	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	0.10	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	0.33	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	0.27	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	1.2	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.31	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	0.33	ug/L	1
Styrene	100-42-5	8260B	ND		1.0	0.12	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		1.0	0.20	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	0.16	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	0.13	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	0.33	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	0.074	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	0.21	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	0.18	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	0.30	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		1.0	0.33	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Trip Blank
Date Sampled: 01/24/2009 0950
Date Received: 01/24/2009

Laboratory ID: KA24001-006
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	01/26/2009 1516	DLB		94030

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		5.0	1.3	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	0.054	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		1.0	0.33	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Description: Soil-1
Date Sampled: 01/23/2009 1315
Date Received: 01/24/2009

Laboratory ID: KA24001-007
Matrix: Solid
% Solids: 76.2 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0859	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	10	01/30/2009 1812	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0418	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	1.6		0.26		mg/kg	1
pH		9045D	6.31				su	1
Phosphorus	7723-14-0	365.1	34		6.6	1.3	mg/kg	1
Sulfate (soluble)		300.0	73	B	13	6.6	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-1
Date Sampled: 01/23/2009 1315
Date Received: 01/24/2009

Laboratory ID: KA24001-007
Matrix: Solid
% Solids: 76.2 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/28/2009 2122	IVC		94236	7.64

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		17	5.8	ug/kg	1
Acrylonitrile	107-13-1	8260B	ND		43	5.2	ug/kg	1
Benzene	71-43-2	8260B	ND		4.3	0.94	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.3	0.86	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.3	1.4	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.3	0.60	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.3	1.5	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**3.4**	**J**	**8.6**	**2.1**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		4.3	1.1	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.3	1.5	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.3	1.4	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.3	1.1	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.3	0.71	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.3	0.86	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.3	1.3	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.3	1.4	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.3	0.73	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.3	0.82	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		8.6	0.69	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.3	1.4	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.3	1.4	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.3	0.63	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.3	0.86	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.3	1.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.3	0.65	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.3	1.3	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.3	0.78	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.3	0.58	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.3	0.70	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.3	1.4	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		8.6	1.1	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.3	0.46	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		8.6	1.3	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.3	2.2	ug/kg	1
Styrene	100-42-5	8260B	ND		4.3	0.94	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.3	1.2	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.3	0.40	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.3	2.0	ug/kg	1
Toluene	108-88-3	8260B	ND		4.3	1.4	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.3	0.73	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.3	0.68	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.3	1.6	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.3	1.3	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.3	0.73	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-1**
Date Sampled: **01/23/2009 1315**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-007**
Matrix: **Solid**
% Solids: **76.2** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/28/2009 2122	IVC		94236	7.64

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		4.3	0.77	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.3	0.74	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		4.3	2.5	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	53-142
Bromofluorobenzene		104	47-138
Toluene-d8		97	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: S&ME, Inc.
Description: Soil-1
Date Sampled: 01/23/2009 1315
Date Received: 01/24/2009

Laboratory ID: KA24001-007
Matrix: Solid
% Solids: 76.2 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0147	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	0.35	J	0.66	0.23	mg/kg	1
Arsenic	7440-38-2	6010C	4.4		0.66	0.25	mg/kg	1
Barium	7440-39-3	6010C	39		1.7	0.12	mg/kg	1
Beryllium	7440-41-7	6010C	0.62		0.26	0.037	mg/kg	1
Cadmium	7440-43-9	6010C	0.10	J	0.13	0.014	mg/kg	1
Chromium	7440-47-3	6010C	31		0.33	0.066	mg/kg	1
Cobalt	7440-48-4	6010C	6.4		1.7	0.12	mg/kg	1
Copper	7440-50-8	6010C	11		0.33	0.064	mg/kg	1
Lead	7439-92-1	6010C	13		0.66	0.12	mg/kg	1
Nickel	7440-02-0	6010C	8.7		2.6	0.20	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.66	0.23	mg/kg	1
Silver	7440-22-4	6010C	ND		0.33	0.055	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.3	0.33	mg/kg	1
Vanadium	7440-62-2	6010C	64		3.3	0.20	mg/kg	1
Zinc	7440-66-6	6010C	28		3.3	0.44	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Description: Soil-2
Date Sampled: 01/23/2009 1320
Date Received: 01/24/2009

Laboratory ID: KA24001-008
Matrix: Solid
% Solids: 77.8 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0900	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	1	01/30/2009 1645	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0441	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	0.66		0.26		mg/kg	1
pH		9045D	5.83				su	1
Phosphorus	7723-14-0	365.1	1.6		0.64	0.13	mg/kg	1
Sulfate (soluble)		300.0	57	B	13	6.4	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-2
Date Sampled: 01/23/2009 1320
Date Received: 01/24/2009

Laboratory ID: KA24001-008
Matrix: Solid
% Solids: 77.8 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0121	DLB		94047	10.72

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**55**		**12**	**4.0**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		30	3.6	ug/kg	1
Benzene	71-43-2	8260B	ND		3.0	0.66	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		3.0	0.60	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		3.0	1.0	ug/kg	1
Bromoform	75-25-2	8260B	ND		3.0	0.42	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.0	1.1	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**65**		**6.0**	**1.4**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		3.0	0.78	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		3.0	1.1	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		3.0	1.0	ug/kg	1
Chloroethane	75-00-3	8260B	ND		3.0	0.78	ug/kg	1
Chloroform	67-66-3	8260B	ND		3.0	0.50	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.0	0.60	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.0	0.90	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		3.0	1.0	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.0	0.51	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		3.0	0.57	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		6.0	0.48	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.0	1.0	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.0	1.0	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		3.0	0.44	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		3.0	0.60	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		3.0	1.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.0	0.46	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.0	0.90	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		3.0	0.54	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.0	0.41	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.0	0.49	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		3.0	1.0	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		6.0	0.78	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		3.0	0.32	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		6.0	0.90	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		3.0	1.6	ug/kg	1
Styrene	100-42-5	8260B	ND		3.0	0.66	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		3.0	0.84	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.0	0.28	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		3.0	1.4	ug/kg	1
Toluene	108-88-3	8260B	ND		3.0	1.0	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.0	0.51	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.0	0.47	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		3.0	1.1	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		3.0	0.90	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		3.0	0.51	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-2**
Date Sampled: **01/23/2009 1320**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-008**
Matrix: **Solid**
% Solids: **77.8** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0121	DLB		94047	10.72

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		3.0	0.54	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		3.0	0.52	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		3.0	1.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	53-142
Bromofluorobenzene		95	47-138
Toluene-d8		95	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: S&ME, Inc.
Description: Soil-2
Date Sampled: 01/23/2009 1320
Date Received: 01/24/2009

Laboratory ID: KA24001-008
Matrix: Solid
% Solids: 77.8 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0151	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	0.23	J	0.64	0.23	mg/kg	1
Arsenic	7440-38-2	6010C	3.8		0.64	0.24	mg/kg	1
Barium	7440-39-3	6010C	70		1.7	0.12	mg/kg	1
Beryllium	7440-41-7	6010C	0.95		0.26	0.036	mg/kg	1
Cadmium	7440-43-9	6010C	0.14		0.13	0.013	mg/kg	1
Chromium	7440-47-3	6010C	25		0.32	0.065	mg/kg	1
Cobalt	7440-48-4	6010C	9.3		1.7	0.12	mg/kg	1
Copper	7440-50-8	6010C	13		0.32	0.062	mg/kg	1
Lead	7439-92-1	6010C	14		0.64	0.12	mg/kg	1
Nickel	7440-02-0	6010C	11		2.6	0.19	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.64	0.22	mg/kg	1
Silver	7440-22-4	6010C	ND		0.32	0.054	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.2	0.33	mg/kg	1
Vanadium	7440-62-2	6010C	59		3.2	0.19	mg/kg	1
Zinc	7440-66-6	6010C	32		3.2	0.44	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: **S&ME, Inc.**
Description: **Soil-3**
Date Sampled: **01/23/2009 1400**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-009**
Matrix: **Solid**
% Solids: **62.3** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0901	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	1	01/30/2009 1743	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0503	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	0.75		0.32		mg/kg	1
pH		9045D	5.42				su	1
Phosphorus	7723-14-0	365.1	1.8		0.80	0.16	mg/kg	1
Sulfate (soluble)		300.0	79	B	16	8.0	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-3**
Date Sampled: **01/23/2009 1400**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-009**
Matrix: **Solid**
% Solids: **62.3** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0144	DLB		94047	8.50

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**50**		**19**	**6.3**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		47	5.7	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.7	0.94	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**58**		**9.4**	**2.3**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	0.78	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.94	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.80	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.7	0.90	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		9.4	0.76	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.69	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.94	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.72	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.86	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.64	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.77	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.4	1.2	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.7	0.51	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.4	1.4	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	2.4	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.7	1.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.44	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	2.2	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.80	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.75	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.7	0.80	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-3
Date Sampled: 01/23/2009 1400
Date Received: 01/24/2009

Laboratory ID: KA24001-009
Matrix: Solid
% Solids: 62.3 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0144	DLB		94047	8.50

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		4.7	0.85	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.7	0.81	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		4.7	2.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	53-142
Bromofluorobenzene		94	47-138
Toluene-d8		94	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: S&ME, Inc.
Description: Soil-3
Date Sampled: 01/23/2009 1400
Date Received: 01/24/2009

Laboratory ID: KA24001-009
Matrix: Solid
% Solids: 62.3 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0155	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.80	0.28	mg/kg	1
Arsenic	7440-38-2	6010C	7.2		0.80	0.30	mg/kg	1
Barium	7440-39-3	6010C	110		2.1	0.14	mg/kg	1
Beryllium	7440-41-7	6010C	1.6		0.32	0.045	mg/kg	1
Cadmium	7440-43-9	6010C	0.19		0.16	0.017	mg/kg	1
Chromium	7440-47-3	6010C	26		0.40	0.081	mg/kg	1
Cobalt	7440-48-4	6010C	15		2.1	0.15	mg/kg	1
Copper	7440-50-8	6010C	22		0.40	0.078	mg/kg	1
Lead	7439-92-1	6010C	22		0.80	0.15	mg/kg	1
Nickel	7440-02-0	6010C	18		3.2	0.24	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.80	0.28	mg/kg	1
Silver	7440-22-4	6010C	ND		0.40	0.067	mg/kg	1
Thallium	7440-28-0	6010C	ND		4.0	0.41	mg/kg	1
Vanadium	7440-62-2	6010C	69		4.0	0.24	mg/kg	1
Zinc	7440-66-6	6010C	72		4.0	0.54	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Description: Soil-4
Date Sampled: 01/23/2009 1420
Date Received: 01/24/2009

Laboratory ID: KA24001-010
Matrix: Solid
% Solids: 61.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0905	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	1	01/30/2009 1743	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0525	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	0.62		0.32		mg/kg	1
pH		9045D	5.51				su	1
Phosphorus	7723-14-0	365.1	4.4		0.81	0.16	mg/kg	1
Sulfate (soluble)		300.0	32	B	16	8.1	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-4
Date Sampled: 01/23/2009 1420
Date Received: 01/24/2009

Laboratory ID: KA24001-010
Matrix: Solid
% Solids: 61.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	01/27/2009 1448	DLB		94083	13.06

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**5.2**	**J**	**12**	**4.2**	**ug/kg**	**2**
Acrylonitrile	107-13-1	8260B	ND		31	3.7	ug/kg	2
Benzene	71-43-2	8260B	ND		3.1	0.68	ug/kg	2
Bromochloromethane	74-97-5	8260B	ND		3.1	0.62	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		3.1	1.0	ug/kg	2
Bromoform	75-25-2	8260B	ND		3.1	0.44	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.1	1.1	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		6.2	1.5	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		3.1	0.81	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		3.1	1.1	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		3.1	1.0	ug/kg	2
Chloroethane	75-00-3	8260B	ND		3.1	0.81	ug/kg	2
Chloroform	67-66-3	8260B	ND		3.1	0.52	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.1	0.62	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.1	0.93	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		3.1	1.0	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.1	0.53	ug/kg	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		3.1	0.59	ug/kg	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		6.2	0.50	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.1	1.0	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.1	1.0	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		3.1	0.45	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		3.1	0.62	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		3.1	1.0	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.1	0.47	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.1	0.93	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		3.1	0.57	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.1	0.42	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.1	0.51	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		3.1	1.0	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		6.2	0.81	ug/kg	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		3.1	0.34	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		6.2	0.93	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		3.1	1.6	ug/kg	2
Styrene	100-42-5	8260B	ND		3.1	0.68	ug/kg	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		3.1	0.87	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.1	0.29	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		3.1	1.4	ug/kg	2
Toluene	108-88-3	8260B	ND		3.1	1.0	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.1	0.53	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.1	0.49	ug/kg	2
Trichloroethene	79-01-6	8260B	ND		3.1	1.2	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		3.1	0.93	ug/kg	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		3.1	0.53	ug/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-4
Date Sampled: 01/23/2009 1420
Date Received: 01/24/2009

Laboratory ID: KA24001-010
Matrix: Solid
% Solids: 61.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	01/27/2009 1448	DLB		94083	13.06

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		3.1	0.56	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		3.1	0.54	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		3.1	1.8	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	53-142
Bromofluorobenzene		89	47-138
Toluene-d8		92	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: S&ME, Inc.
Description: Soil-4
Date Sampled: 01/23/2009 1420
Date Received: 01/24/2009

Laboratory ID: KA24001-010
Matrix: Solid
% Solids: 61.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0159	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.81	0.29	mg/kg	1
Arsenic	**7440-38-2**	**6010C**	**4.8**		**0.81**	**0.30**	**mg/kg**	**1**
Barium	**7440-39-3**	**6010C**	**100**		**2.1**	**0.15**	**mg/kg**	**1**
Beryllium	**7440-41-7**	**6010C**	**1.0**		**0.32**	**0.046**	**mg/kg**	**1**
Cadmium	**7440-43-9**	**6010C**	**0.19**		**0.16**	**0.017**	**mg/kg**	**1**
Chromium	**7440-47-3**	**6010C**	**33**		**0.41**	**0.082**	**mg/kg**	**1**
Cobalt	**7440-48-4**	**6010C**	**8.1**		**2.1**	**0.15**	**mg/kg**	**1**
Copper	**7440-50-8**	**6010C**	**16**		**0.41**	**0.079**	**mg/kg**	**1**
Lead	**7439-92-1**	**6010C**	**19**		**0.81**	**0.15**	**mg/kg**	**1**
Nickel	**7440-02-0**	**6010C**	**15**		**3.2**	**0.24**	**mg/kg**	**1**
Selenium	7782-49-2	6010C	ND		0.81	0.28	mg/kg	1
Silver	7440-22-4	6010C	ND		0.41	0.068	mg/kg	1
Thallium	7440-28-0	6010C	ND		4.1	0.41	mg/kg	1
Vanadium	**7440-62-2**	**6010C**	**63**		**4.1**	**0.24**	**mg/kg**	**1**
Zinc	**7440-66-6**	**6010C**	**48**		**4.1**	**0.55**	**mg/kg**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Inorganic non-metals

Client: S&ME, Inc.
Description: Soil-5
Date Sampled: 01/23/2009 1440
Date Received: 01/24/2009

Laboratory ID: KA24001-011
Matrix: Solid
% Solids: 71.9 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0912	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	20	01/30/2009 1816	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0548	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	0.45		0.28		mg/kg	1
pH		9045D	6.01				su	1
Phosphorus	7723-14-0	365.1	85		14	2.8	mg/kg	1
Sulfate (soluble)		300.0	10	BJ	14	7.0	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-5
Date Sampled: 01/23/2009 1440
Date Received: 01/24/2009

Laboratory ID: KA24001-011
Matrix: Solid
% Solids: 71.9 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0228	DLB		94047	11.12

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**6.5**	**J**	**12**	**4.2**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		31	3.8	ug/kg	1
Benzene	71-43-2	8260B	ND		3.1	0.69	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		3.1	0.62	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		3.1	1.1	ug/kg	1
Bromoform	75-25-2	8260B	ND		3.1	0.44	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		3.1	1.1	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		6.2	1.5	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		3.1	0.81	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		3.1	1.1	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		3.1	1.1	ug/kg	1
Chloroethane	75-00-3	8260B	ND		3.1	0.81	ug/kg	1
Chloroform	67-66-3	8260B	ND		3.1	0.52	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		3.1	0.62	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		3.1	0.94	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		3.1	1.1	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		3.1	0.53	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		3.1	0.59	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		6.2	0.50	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		3.1	1.1	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		3.1	1.1	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		3.1	0.46	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		3.1	0.62	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		3.1	1.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		3.1	0.48	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		3.1	0.94	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		3.1	0.57	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		3.1	0.42	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		3.1	0.51	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		3.1	1.1	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		6.2	0.81	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		3.1	0.34	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		6.2	0.94	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		3.1	1.6	ug/kg	1
Styrene	100-42-5	8260B	ND		3.1	0.69	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		3.1	0.88	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		3.1	0.29	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		3.1	1.4	ug/kg	1
Toluene	108-88-3	8260B	ND		3.1	1.1	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		3.1	0.53	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		3.1	0.49	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		3.1	1.2	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		3.1	0.94	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		3.1	0.53	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-5
Date Sampled: 01/23/2009 1440
Date Received: 01/24/2009

Laboratory ID: KA24001-011
Matrix: Solid
% Solids: 71.9 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0228	DLB		94047	11.12

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		3.1	0.56	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		3.1	0.54	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		3.1	1.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	53-142
Bromofluorobenzene		86	47-138
Toluene-d8		86	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: **S&ME, Inc.**
Description: **Soil-5**
Date Sampled: **01/23/2009 1440**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-011**
Matrix: **Solid**
% Solids: **71.9** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0203	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.70	0.25	mg/kg	1
Arsenic	7440-38-2	6010C	5.2		0.70	0.26	mg/kg	1
Barium	7440-39-3	6010C	93		1.8	0.13	mg/kg	1
Beryllium	7440-41-7	6010C	0.81		0.28	0.039	mg/kg	1
Cadmium	7440-43-9	6010C	0.20		0.14	0.015	mg/kg	1
Chromium	7440-47-3	6010C	48		0.35	0.070	mg/kg	1
Cobalt	7440-48-4	6010C	7.5		1.8	0.13	mg/kg	1
Copper	7440-50-8	6010C	16		0.35	0.067	mg/kg	1
Lead	7439-92-1	6010C	16		0.70	0.13	mg/kg	1
Nickel	7440-02-0	6010C	19		2.8	0.21	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.70	0.24	mg/kg	1
Silver	7440-22-4	6010C	ND		0.35	0.058	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.5	0.35	mg/kg	1
Vanadium	7440-62-2	6010C	61		3.5	0.21	mg/kg	1
Zinc	7440-66-6	6010C	69		3.5	0.47	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: S&ME, Inc.
Description: Soil-6
Date Sampled: 01/23/2009 1630
Date Received: 01/24/2009

Laboratory ID: KA24001-012
Matrix: Solid
% Solids: 46.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0913	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	1	01/30/2009 1743	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0610	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	0.79		0.43		mg/kg	1
pH		9045D	5.71				su	1
Phosphorus	7723-14-0	365.1	3.9		1.1	0.22	mg/kg	1
Sulfate (soluble)		300.0	18	BJ	22	11	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-6
Date Sampled: 01/23/2009 1630
Date Received: 01/24/2009

Laboratory ID: KA24001-012
Matrix: Solid
% Solids: 46.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	01/27/2009 1511	DLB		94083	11.48

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**38**		**19**	**6.3**	**ug/kg**	**2**
Acrylonitrile	107-13-1	8260B	ND		47	5.6	ug/kg	2
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	2
Bromochloromethane	74-97-5	8260B	ND		4.7	0.94	ug/kg	2
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	2
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	2
2-Butanone (MEK)	78-93-3	8260B	ND		9.4	2.2	ug/kg	2
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	2
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	2
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	2
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	2
Chloroform	67-66-3	8260B	ND		4.7	0.78	ug/kg	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.94	ug/kg	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	2
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.80	ug/kg	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.7	0.89	ug/kg	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		9.4	0.75	ug/kg	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	2
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.68	ug/kg	2
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.94	ug/kg	2
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.71	ug/kg	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	2
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.85	ug/kg	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.64	ug/kg	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.77	ug/kg	2
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	2
2-Hexanone	591-78-6	8260B	ND		9.4	1.2	ug/kg	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.7	0.51	ug/kg	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.4	1.4	ug/kg	2
Methylene chloride	75-09-2	8260B	ND		4.7	2.4	ug/kg	2
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.7	1.3	ug/kg	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.44	ug/kg	2
Tetrachloroethene	127-18-4	8260B	ND		4.7	2.2	ug/kg	2
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.80	ug/kg	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.74	ug/kg	2
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	2
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.7	0.80	ug/kg	2

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Description: **Soil-6**
Date Sampled: **01/23/2009 1630**
Date Received: **01/24/2009**

Laboratory ID: **KA24001-012**
Matrix: **Solid**
% Solids: **46.4** **01/24/2009 1430**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
2	5035	8260B	1	01/27/2009 1511	DLB		94083	11.48

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		4.7	0.84	ug/kg	2
Vinyl chloride	75-01-4	8260B	ND		4.7	0.81	ug/kg	2
Xylenes (total)	1330-20-7	8260B	ND		4.7	2.7	ug/kg	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	53-142
Bromofluorobenzene		77	47-138
Toluene-d8		85	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: S&ME, Inc.
Description: Soil-6
Date Sampled: 01/23/2009 1630
Date Received: 01/24/2009

Laboratory ID: KA24001-012
Matrix: Solid
% Solids: 46.4 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0207	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		1.1	0.38	mg/kg	1
Arsenic	7440-38-2	6010C	6.0		1.1	0.40	mg/kg	1
Barium	7440-39-3	6010C	110		2.8	0.20	mg/kg	1
Beryllium	7440-41-7	6010C	1.5		0.43	0.060	mg/kg	1
Cadmium	7440-43-9	6010C	0.22		0.22	0.023	mg/kg	1
Chromium	7440-47-3	6010C	49		0.54	0.11	mg/kg	1
Cobalt	7440-48-4	6010C	9.3		2.8	0.20	mg/kg	1
Copper	7440-50-8	6010C	18		0.54	0.10	mg/kg	1
Lead	7439-92-1	6010C	22		1.1	0.20	mg/kg	1
Nickel	7440-02-0	6010C	21		4.3	0.32	mg/kg	1
Selenium	7782-49-2	6010C	ND		1.1	0.37	mg/kg	1
Silver	7440-22-4	6010C	ND		0.54	0.090	mg/kg	1
Thallium	7440-28-0	6010C	ND		5.4	0.55	mg/kg	1
Vanadium	7440-62-2	6010C	78		5.4	0.32	mg/kg	1
Zinc	7440-66-6	6010C	50		5.4	0.73	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: S&ME, Inc.
Description: Soil-7
Date Sampled: 01/23/2009 1635
Date Received: 01/24/2009

Laboratory ID: KA24001-013
Matrix: Solid
% Solids: 75.7 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Nitrate-Nitr) 353.2	1	01/28/2009 0914	MML		94140
1		(pH) 9045D	1	01/26/2009 1606	HCB		94002
1		(Phosphorus) 365.1	1	01/30/2009 1743	RLM	01/29/2009 1300	94221
1		(Sulfate (sol) 300.0	1	01/29/2009 0633	DAS		94253

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Nitrate-Nitrite - N (soluble)		353.2	0.27		0.26		mg/kg	1
pH		9045D	4.60				su	1
Phosphorus	7723-14-0	365.1	0.69		0.66	0.13	mg/kg	1
Sulfate (soluble)		300.0	41	B	13	6.6	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: S&ME, Inc.
Description: Soil-7
Date Sampled: 01/23/2009 1635
Date Received: 01/24/2009

Laboratory ID: KA24001-013
Matrix: Solid
% Solids: 75.7 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0312	DLB		94047	7.01

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	**67-64-1**	**8260B**	**160**		**19**	**6.3**	**ug/kg**	**1**
Acrylonitrile	107-13-1	8260B	ND		47	5.6	ug/kg	1
Benzene	71-43-2	8260B	ND		4.7	1.0	ug/kg	1
Bromochloromethane	74-97-5	8260B	ND		4.7	0.94	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		4.7	1.6	ug/kg	1
Bromoform	75-25-2	8260B	ND		4.7	0.66	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		4.7	1.7	ug/kg	1
2-Butanone (MEK)	**78-93-3**	**8260B**	**9.9**		**9.4**	**2.3**	**ug/kg**	**1**
Carbon disulfide	75-15-0	8260B	ND		4.7	1.2	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		4.7	1.7	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		4.7	1.6	ug/kg	1
Chloroethane	75-00-3	8260B	ND		4.7	1.2	ug/kg	1
Chloroform	67-66-3	8260B	ND		4.7	0.78	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		4.7	0.94	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		4.7	1.4	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		4.7	1.6	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		4.7	0.80	ug/kg	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		4.7	0.90	ug/kg	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		9.4	0.75	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		4.7	1.6	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		4.7	1.6	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		4.7	0.69	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		4.7	0.94	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		4.7	1.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		4.7	0.72	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		4.7	1.4	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		4.7	0.86	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		4.7	0.64	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		4.7	0.77	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.7	1.6	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		9.4	1.2	ug/kg	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		4.7	0.51	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		9.4	1.4	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		4.7	2.4	ug/kg	1
Styrene	100-42-5	8260B	ND		4.7	1.0	ug/kg	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		4.7	1.3	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		4.7	0.44	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		4.7	2.2	ug/kg	1
Toluene	108-88-3	8260B	ND		4.7	1.6	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		4.7	0.80	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		4.7	0.74	ug/kg	1
Trichloroethene	79-01-6	8260B	ND		4.7	1.8	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		4.7	1.4	ug/kg	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		4.7	0.80	ug/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **S&ME, Inc.**
Laboratory ID: **KA24001-013**
Description: **Soil-7**
Matrix: **Solid**
Date Sampled: **01/23/2009 1635**
% Solids: **75.7** **01/24/2009 1430**
Date Received: **01/24/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	1	01/27/2009 0312	DLB		94047	7.01

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Vinyl acetate	108-05-4	8260B	ND		4.7	0.85	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		4.7	0.81	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		4.7	2.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	53-142
Bromofluorobenzene		82	47-138
Toluene-d8		90	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Appendix I Metals

Client: S&ME, Inc.
Description: Soil-7
Date Sampled: 01/23/2009 1635
Date Received: 01/24/2009

Laboratory ID: KA24001-013
Matrix: Solid
% Solids: 75.7 01/24/2009 1430

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3050B	6010C	1	01/29/2009 0211	KJC	01/26/2009 1103	93963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Antimony	7440-36-0	6010C	ND		0.66	0.24	mg/kg	1
Arsenic	7440-38-2	6010C	4.0		0.66	0.25	mg/kg	1
Barium	7440-39-3	6010C	52		1.7	0.12	mg/kg	1
Beryllium	7440-41-7	6010C	0.66		0.26	0.037	mg/kg	1
Cadmium	7440-43-9	6010C	0.12	J	0.13	0.014	mg/kg	1
Chromium	7440-47-3	6010C	39		0.33	0.067	mg/kg	1
Cobalt	7440-48-4	6010C	5.4		1.7	0.12	mg/kg	1
Copper	7440-50-8	6010C	11		0.33	0.064	mg/kg	1
Lead	7439-92-1	6010C	21		0.66	0.12	mg/kg	1
Nickel	7440-02-0	6010C	15		2.6	0.20	mg/kg	1
Selenium	7782-49-2	6010C	ND		0.66	0.23	mg/kg	1
Silver	7440-22-4	6010C	ND		0.33	0.055	mg/kg	1
Thallium	7440-28-0	6010C	ND		3.3	0.34	mg/kg	1
Vanadium	7440-62-2	6010C	57		3.3	0.20	mg/kg	1
Zinc	7440-66-6	6010C	27		3.3	0.45	mg/kg	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number

Lot No. KA24001

Remarks / Cooler I.D.

Sample ID / Description | Date | Time | Matrix | No. of Containers by Preservative Type

Possible Hazard Identification

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

	Date	Time		Date	Time
1. Relinquished by			1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by Fed Ex	1/24/09	0950	3. Received by (signature)	1/24/09	0950

Comments

Temp. 2.3

DISTRIBUTION:

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY *Chain of Custody Record*

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number

Client

Address

City | State | Zip Code

Project Name

Project No.

P.O. No.

Sampler(s) Signature(s)

Shipping Method

Telephone No. / Fax No. / Email

Quote No.

Ship To

Page ___ of ___

(If Known, Attach Full Analysis Report to this Form)

Lot No. K224001

Sample No. - Description (Containers for each sample may be combined on one line.)	Date	Time	Matrix	Sample Type	No. of Containers by Preservation Type	Remarks / Cooler ID

Possible Hazard Identification: Non-Hazard / Flammable / Skin Irritant / Poison / Unknown

Sample Disposal: Return to Client / Dispose of for fee / Archive for months

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Fees for rush analysis may be required by laboratory): Standard / Rush (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by			1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by Fed Ex	11/24/09	0950	3. Received by Scott Mitt	11/24/09	0950

Comments

Lab Use Only: Temperature (Circle) (Yes) No Are Intact

Receipt Temp. 2.3 C

DISTRIBUTION: (White & Yellow) Accompany Sample to Laboratory; (White) Project Manager; (Yellow) Client Copy

Document Number: L-49-012 Effective Date: 10/01/09

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-006
Revision Number: 0

Page 1 of 1
Revision Date: 09/20/06
Effective Date: 09/29/06

Sample Receipt Checklist (SRC)

Client: SCANE Cooler Inspected by/date: SAM / 11/24/09 Lot #: KA24001

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☑	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 2.3 / °C ___ / °C ___ / °C ___ / °C
2.3 / °C ___ / °C ___ / °C ___ / °C

Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: ___. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☑	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any VOA vials?
Yes ☑	No ☐	NA ☐	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) ___ were received incorrectly preserved and were adjusted accordingly in sample receiving with ___ (H_2SO_4, HNO_3, HCl, NaOH) with the SR # (number)

Sample(s) ___ were received with bubbles >6 mm in diameter.

Sample(s) ___ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb

Toxicity sample(s) ___ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐ Did client respond: Yes ☐ No ☐

SESI employee: ___ Date of response: ___

Comments: ___

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

Wednesday, July 22, 2009

S&ME, Inc. (SM002)

Attn: Julie Petersen

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-09-006, Project Name/Desc: Lincoln County Leachate Assessment
ENCO Workorder: C907671

Dear Julie Petersen,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, July 8, 2009.

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 47.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Soil-7 **Lab ID:** C907671-01 **Sampled:** 07/07/09 13:50 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:44
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 16:57
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 11:55
EPA 8260B	07/21/09			07/08/09	07:36	7/8/2009 14:11
EPA 9045D	07/10/09	10:46		07/10/09	10:32	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 18:43

Client ID: Soil-7 **Lab ID:** C907671-01RE1 **Sampled:** 07/07/09 13:50 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 14:53

Client ID: Soil-8 **Lab ID:** C907671-02 **Sampled:** 07/07/09 09:45 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:48
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 17:03
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 11:58
EPA 8260B	07/21/09			07/08/09	07:36	7/8/2009 14:40
EPA 9045D	07/10/09	10:46		07/10/09	10:32	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 19:00

Client ID: Soil-8 **Lab ID:** C907671-02RE1 **Sampled:** 07/07/09 09:45 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 14:54

Client ID: Soil-10 **Lab ID:** C907671-03 **Sampled:** 07/07/09 09:30 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:49
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 17:08
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 12:00
EPA 8260B	07/21/09			07/08/09	07:36	7/8/2009 15:09
EPA 9045D	07/10/09	10:46		07/10/09	10:32	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 19:16

Client ID: Soil-10 **Lab ID:** C907671-03RE1 **Sampled:** 07/07/09 09:30 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 14:55

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Client ID:	Soil-11	Lab ID:	C907671-04	Sampled:	07/07/09 10:45	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:51
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 17:10
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 12:02
EPA 8260B	07/21/09			07/08/09	07:36	7/8/2009 15:38
EPA 9045D	07/10/09	10:46		07/10/09	10:32	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 19:33

Client ID:	Soil-11	Lab ID:	C907671-04RE1	Sampled:	07/07/09 10:45	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 14:57

Client ID:	Soil-12	Lab ID:	C907671-05	Sampled:	07/07/09 14:25	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:52
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 17:12
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 12:05
EPA 8260B	07/21/09			07/08/09	07:36	7/8/2009 16:07
EPA 9045D	07/10/09	10:54		07/10/09	10:40	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 19:50

Client ID:	Soil-12	Lab ID:	C907671-05RE1	Sampled:	07/07/09 14:25	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 14:58

Client ID:	Soil-15	Lab ID:	C907671-06	Sampled:	07/07/09 11:20	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:53
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 17:14
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 12:07
EPA 8260B	07/21/09			07/08/09	07:36	7/8/2009 16:36
EPA 9045D	07/10/09	10:54		07/10/09	10:40	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 20:06

Client ID:	Soil-15	Lab ID:	C907671-06RE1	Sampled:	07/07/09 11:20	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 14:59

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Client ID: Soil-16	Lab ID: C907671-07	Sampled: 07/07/09 10:00	Received: 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/09/09	00:00	08/26/09	07/09/09	09:26	7/9/2009 16:56
EPA 353.2	08/04/09			07/09/09	09:26	7/12/2009 17:16
EPA 353.2	08/04/09			07/09/09	09:26	7/14/2009 08:50
EPA 6010C	01/03/10			07/10/09	10:49	7/13/2009 12:10
EPA 9045D	07/10/09	10:54		07/10/09	10:40	7/10/2009 15:30
EPA 9056A	08/04/09			07/09/09	09:26	7/10/2009 20:56

Client ID: Soil-16	Lab ID: C907671-07RE1	Sampled: 07/07/09 10:00	Received: 07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/04/09	07/09/09	11:57	7/10/2009 15:01
EPA 8260B	07/21/09	07/17/09	09:03	7/17/2009 14:58

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SAMPLE DETECTION SUMMARY

Client ID: Soil-7 **Lab ID:** C907671-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	1.60	J	0.461	1.77	mg/kg dry	EPA 6010C	
Arsenic - Total	4.92		0.425	0.886	mg/kg dry	EPA 6010C	
Barium - Total	114		0.149	0.886	mg/kg dry	EPA 6010C	
Beryllium - Total	1.31		0.00585	0.0886	mg/kg dry	EPA 6010C	
Cadmium - Total	0.151		0.0115	0.0886	mg/kg dry	EPA 6010C	
Chromium - Total	41.8	B	0.0567	0.886	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	7.61		0.0284	0.886	mg/kg dry	EPA 6010C	
Copper - Total	15.0	B	0.105	0.886	mg/kg dry	EPA 6010C	QB-01
Lead - Total	28.0		0.122	0.886	mg/kg dry	EPA 6010C	
Nickel - Total	13.0		0.149	4.43	mg/kg dry	EPA 6010C	
Nitrate as N	0.21	J	0.099	1.8	mg/kg dry	EPA 353.2	
Nitrate/Nitrite as N	0.58	J	0.37	1.8	mg/kg dry	EPA 353.2	
Nitrite as N	0.37	J	0.099	1.8	mg/kg dry	EPA 353.2	
pH	5.8		1.0	1.0	pH Units	EPA 9045D	Q
Silver - Total	0.345	J	0.0957	0.886	mg/kg dry	EPA 6010C	
Sulfate as SO4	49	J	1.4	89	mg/kg dry	EPA 9056A	
Vanadium - Total	68.2		0.0585	0.886	mg/kg dry	EPA 6010C	
Zinc - Total	35.5		3.01	4.43	mg/kg dry	EPA 6010C	

Client ID: Soil-7 **Lab ID:** C907671-01RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	730	D	45	57	mg/kg dry	EPA 365.4	

Client ID: Soil-8 **Lab ID:** C907671-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	1.21	J	0.324	1.25	mg/kg dry	EPA 6010C	
Arsenic - Total	2.20		0.299	0.623	mg/kg dry	EPA 6010C	
Barium - Total	36.2		0.105	0.623	mg/kg dry	EPA 6010C	
Beryllium - Total	0.529		0.00411	0.0623	mg/kg dry	EPA 6010C	
Cadmium - Total	0.0475	J	0.00810	0.0623	mg/kg dry	EPA 6010C	
Chromium - Total	36.2	B	0.0399	0.623	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	4.49		0.0199	0.623	mg/kg dry	EPA 6010C	
Copper - Total	13.1	B	0.0735	0.623	mg/kg dry	EPA 6010C	QB-01
Lead - Total	18.3		0.0860	0.623	mg/kg dry	EPA 6010C	
m,p-Xylenes	0.0004	J	0.0004	0.002	mg/kg dry	EPA 8260B	
Nickel - Total	10.6		0.105	3.12	mg/kg dry	EPA 6010C	
Nitrate as N	4.3		0.070	1.2	mg/kg dry	EPA 353.2	
Nitrate/Nitrite as N	4.4		0.26	1.2	mg/kg dry	EPA 353.2	
Nitrite as N	0.074	J	0.070	1.2	mg/kg dry	EPA 353.2	
pH	7.5		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	52	J	0.97	62	mg/kg dry	EPA 9056A	
Toluene	0.0005	J	0.0002	0.001	mg/kg dry	EPA 8260B	
Vanadium - Total	57.2		0.0411	0.623	mg/kg dry	EPA 6010C	
Zinc - Total	19.0		2.12	3.12	mg/kg dry	EPA 6010C	

Client ID: Soil-8 **Lab ID:** C907671-02RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	330	D	16	20	mg/kg dry	EPA 365.4	

Client ID: Soil-10 **Lab ID:** C907671-03

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.685	J	0.307	1.18	mg/kg dry	EPA 6010C	
Arsenic - Total	6.98		0.283	0.591	mg/kg dry	EPA 6010C	
Barium - Total	51.7		0.0992	0.591	mg/kg dry	EPA 6010C	
Beryllium - Total	1.21		0.00390	0.0591	mg/kg dry	EPA 6010C	
Cadmium - Total	0.148		0.00768	0.0591	mg/kg dry	EPA 6010C	
Chromium - Total	23.4	B	0.0378	0.591	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	14.3		0.0189	0.591	mg/kg dry	EPA 6010C	
Copper - Total	21.3	B	0.0697	0.591	mg/kg dry	EPA 6010C	QB-01
Lead - Total	26.2		0.0815	0.591	mg/kg dry	EPA 6010C	
m,p-Xylenes	0.0008	J	0.0003	0.002	mg/kg dry	EPA 8260B	
Nickel - Total	12.7		0.0992	2.95	mg/kg dry	EPA 6010C	
Nitrite as N	1.5		0.066	1.2	mg/kg dry	EPA 353.2	
o-Xylene	0.0007	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
pH	8.0		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	48	J	0.92	59	mg/kg dry	EPA 9056A	
Vanadium - Total	52.4		0.0390	0.591	mg/kg dry	EPA 6010C	
Xylenes (Total)	0.002		0.0005	0.0009	mg/kg dry	EPA 8260B	
Zinc - Total	42.5		2.01	2.95	mg/kg dry	EPA 6010C	

Client ID: Soil-10 **Lab ID:** C907671-03RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	340	D	22	29	mg/kg dry	EPA 365.4	

Client ID: Soil-11 **Lab ID:** C907671-04

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	4.77		0.309	0.643	mg/kg dry	EPA 6010C	
Barium - Total	113		0.108	0.643	mg/kg dry	EPA 6010C	
Beryllium - Total	0.888		0.00424	0.0643	mg/kg dry	EPA 6010C	
Cadmium - Total	0.184		0.00836	0.0643	mg/kg dry	EPA 6010C	
Chromium - Total	28.1	B	0.0411	0.643	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	5.60		0.0206	0.643	mg/kg dry	EPA 6010C	
Copper - Total	12.7	B	0.0759	0.643	mg/kg dry	EPA 6010C	QB-01
Lead - Total	24.6		0.0887	0.643	mg/kg dry	EPA 6010C	
Nickel - Total	8.07		0.108	3.21	mg/kg dry	EPA 6010C	
Nitrate as N	0.87	J	0.072	1.3	mg/kg dry	EPA 353.2	
Nitrate/Nitrite as N	1.2	J	0.27	1.3	mg/kg dry	EPA 353.2	
Nitrite as N	0.36	J	0.072	1.3	mg/kg dry	EPA 353.2	
pH	6.3		1.0	1.0	pH Units	EPA 9045D	Q
Silver - Total	0.143	J	0.0694	0.643	mg/kg dry	EPA 6010C	
Sulfate as SO4	28	J	1.0	64	mg/kg dry	EPA 9056A	
Vanadium - Total	54.8		0.0424	0.643	mg/kg dry	EPA 6010C	
Zinc - Total	31.9		2.19	3.21	mg/kg dry	EPA 6010C	

Client ID: Soil-11 **Lab ID:** C907671-04RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	560	D	32	41	mg/kg dry	EPA 365.4	

Client ID: Soil-12 **Lab ID:** C907671-05

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.011		0.002	0.007	mg/kg dry	EPA 8260B	
Antimony - Total	2.42		0.414	1.59	mg/kg dry	EPA 6010C	

Client ID: Soil-12 **Lab ID:** C907671-05

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	4.59		0.382	0.795	mg/kg dry	EPA 6010C	
Barium - Total	118		0.134	0.795	mg/kg dry	EPA 6010C	
Beryllium - Total	1.34		0.00525	0.0795	mg/kg dry	EPA 6010C	
Cadmium - Total	0.297		0.0103	0.0795	mg/kg dry	EPA 6010C	
Chromium - Total	57.0	B	0.0509	0.795	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	10.6		0.0255	0.795	mg/kg dry	EPA 6010C	
Copper - Total	18.4	B	0.0939	0.795	mg/kg dry	EPA 6010C	QB-01
Lead - Total	23.5		0.110	0.795	mg/kg dry	EPA 6010C	
Nickel - Total	16.4		0.134	3.98	mg/kg dry	EPA 6010C	
Nitrate as N	0.67	J	0.089	1.6	mg/kg dry	EPA 353.2	
Nitrate/Nitrite as N	0.87	J	0.33	1.6	mg/kg dry	EPA 353.2	
Nitrite as N	0.21	J	0.089	1.6	mg/kg dry	EPA 353.2	
pH	6.2		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	34	J	1.2	80	mg/kg dry	EPA 9056A	
Toluene	0.0006	J	0.0003	0.001	mg/kg dry	EPA 8260B	
Vanadium - Total	76.3		0.0525	0.795	mg/kg dry	EPA 6010C	
Zinc - Total	46.1		2.70	3.98	mg/kg dry	EPA 6010C	

Client ID: Soil-12 **Lab ID:** C907671-05RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	700	D	40	51	mg/kg dry	EPA 365.4	

Client ID: Soil-15 **Lab ID:** C907671-06

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.13		0.003	0.021	mg/kg dry	EPA 8260B	
Acetone	0.56		0.005	0.021	mg/kg dry	EPA 8260B	
Antimony - Total	6.85		1.28	4.91	mg/kg dry	EPA 6010C	
Arsenic - Total	9.48		1.18	2.46	mg/kg dry	EPA 6010C	
Barium - Total	255		0.413	2.46	mg/kg dry	EPA 6010C	
Beryllium - Total	3.07		0.0162	0.246	mg/kg dry	EPA 6010C	
Cadmium - Total	0.707		0.0319	0.246	mg/kg dry	EPA 6010C	
Chromium - Total	126	B	0.157	2.46	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	18.8		0.0786	2.46	mg/kg dry	EPA 6010C	
Copper - Total	45.1	B	0.290	2.46	mg/kg dry	EPA 6010C	QB-01
Lead - Total	54.1		0.339	2.46	mg/kg dry	EPA 6010C	
Nickel - Total	37.6		0.413	12.3	mg/kg dry	EPA 6010C	
Nitrite as N	1.4	J	0.28	4.9	mg/kg dry	EPA 353.2	
pH	6.3		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	120	J	3.8	250	mg/kg dry	EPA 9056A	
Toluene	0.98	E	0.0009	0.004	mg/kg dry	EPA 8260B	
Vanadium - Total	176		0.162	2.46	mg/kg dry	EPA 6010C	
Zinc - Total	134		8.35	12.3	mg/kg dry	EPA 6010C	

Client ID: Soil-15 **Lab ID:** C907671-06RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	1300	D	62	79	mg/kg dry	EPA 365.4	

Client ID: Soil-16 **Lab ID:** C907671-07

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	2.88	J	0.890	3.42	mg/kg dry	EPA 6010C	
Arsenic - Total	4.25		0.821	1.71	mg/kg dry	EPA 6010C	

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Client ID: Soil-16			Lab ID: C907671-07				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Barium - Total	149		0.287	1.71	mg/kg dry	EPA 6010C	
Beryllium - Total	1.44		0.0113	0.171	mg/kg dry	EPA 6010C	
Cadmium - Total	0.158	J	0.0222	0.171	mg/kg dry	EPA 6010C	
Chromium - Total	63.6	B	0.109	1.71	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	8.47		0.0547	1.71	mg/kg dry	EPA 6010C	
Copper - Total	31.8	B	0.202	1.71	mg/kg dry	EPA 6010C	QB-01
Lead - Total	32.7		0.236	1.71	mg/kg dry	EPA 6010C	
Nickel - Total	19.8		0.287	8.55	mg/kg dry	EPA 6010C	
Nitrite as N	0.59	J	0.19	3.4	mg/kg dry	EPA 353.2	
pH	6.3		1.0	1.0	pH Units	EPA 9045D	Q
Silver - Total	0.293	J	0.185	1.71	mg/kg dry	EPA 6010C	
Sulfate as SO4	110	J	2.7	170	mg/kg dry	EPA 9056A	
Vanadium - Total	90.5		0.113	1.71	mg/kg dry	EPA 6010C	
Zinc - Total	70.4		5.82	8.55	mg/kg dry	EPA 6010C	

Client ID: Soil-16			Lab ID: C907671-07RE1				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
2-Butanone	1.4		0.003	0.017	mg/kg dry	EPA 8260B	
2-Hexanone	0.073		0.003	0.017	mg/kg dry	EPA 8260B	
Acetone	1.8		0.004	0.017	mg/kg dry	EPA 8260B	
Carbon disulfide	0.003	J	0.001	0.017	mg/kg dry	EPA 8260B	
Ethylbenzene	0.005		0.0007	0.003	mg/kg dry	EPA 8260B	
m,p-Xylenes	0.001	J	0.001	0.007	mg/kg dry	EPA 8260B	
o-Xylene	0.002	J	0.0008	0.003	mg/kg dry	EPA 8260B	
Phosphorus	1300	D	65	83	mg/kg dry	EPA 365.4	
Toluene	0.26		0.0007	0.003	mg/kg dry	EPA 8260B	
Xylenes (Total)	0.004		0.002	0.003	mg/kg dry	EPA 8260B	

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ANALYTICAL RESULTS

Description:	Soil-7	**Lab Sample ID:**	C907671-01	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 13:50	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	56.4

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
2-Butanone [78-93-3] ^	0.001	U	mg/kg dry	1	0.001	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
2-Hexanone [591-78-6] ^	0.001	U	mg/kg dry	1	0.001	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.001	U	mg/kg dry	1	0.001	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Acetone [67-64-1] ^	0.002	U	mg/kg dry	1	0.002	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Acrylonitrile [107-13-1] ^	0.003	U	mg/kg dry	1	0.003	0.018	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Benzene [71-43-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Bromochloromethane [74-97-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Bromoform [75-25-2] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Bromomethane [74-83-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Carbon disulfide [75-15-0] ^	0.0007	U	mg/kg dry	1	0.0007	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Carbon tetrachloride [56-23-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Chlorobenzene [108-90-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Chloroethane [75-00-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Chloroform [67-66-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Chloromethane [74-87-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Dibromochloromethane [124-48-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Dibromomethane [74-95-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Ethylbenzene [100-41-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Iodomethane [74-88-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Methylene chloride [75-09-2] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
o-Xylene [95-47-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Styrene [100-42-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Tetrachloroethene [127-18-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Toluene [108-88-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Trichloroethene [79-01-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Vinyl acetate [108-05-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.009	9G08020	EPA 8260B	07/08/09 14:11	JKG	
Vinyl chloride [75-01-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	

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Description:	Soil-7	**Lab Sample ID:**	C907671-01	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 13:50	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	56.4

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G08020	EPA 8260B	07/08/09 14:11	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*61-118*	*9G08020*	*EPA 8260B*	*07/08/09 14:11*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*9G08020*	*EPA 8260B*	*07/08/09 14:11*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*63-118*	*9G08020*	*EPA 8260B*	*07/08/09 14:11*	*JKG*	

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Description:	Soil-7	**Lab Sample ID:**	C907671-01	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 13:50	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	56.4

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.60**	J	mg/kg dry	1	0.461	1.77	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Arsenic [7440-38-2] ^	**4.92**		mg/kg dry	1	0.425	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Barium [7440-39-3] ^	**114**		mg/kg dry	1	0.149	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Beryllium [7440-41-7] ^	**1.31**		mg/kg dry	1	0.00585	0.0886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Cadmium [7440-43-9] ^	**0.151**		mg/kg dry	1	0.0115	0.0886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Chromium [7440-47-3] ^	**41.8**	B	mg/kg dry	1	0.0567	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	QB-01
Cobalt [7440-48-4] ^	**7.61**		mg/kg dry	1	0.0284	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Copper [7440-50-8] ^	**15.0**	B	mg/kg dry	1	0.105	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	QB-01
Lead [7439-92-1] ^	**28.0**		mg/kg dry	1	0.122	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Nickel [7440-02-0] ^	**13.0**		mg/kg dry	1	0.149	4.43	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Selenium [7782-49-2] ^	0.496	U	mg/kg dry	1	0.496	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Silver [7440-22-4] ^	**0.345**	J	mg/kg dry	1	0.0957	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Thallium [7440-28-0] ^	0.284	U	mg/kg dry	1	0.284	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Vanadium [7440-62-2] ^	**68.2**		mg/kg dry	1	0.0585	0.886	9G08012	EPA 6010C	07/13/09 11:55	VLO	
Zinc [7440-66-6] ^	**35.5**		mg/kg dry	1	3.01	4.43	9G08012	EPA 6010C	07/13/09 11:55	VLO	

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Description:	Soil-7	**Lab Sample ID:**	C907671-01	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 13:50	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	56.4

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	**0.21**	J	mg/kg dry	1	0.099	1.8	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	**0.58**	J	mg/kg dry	1	0.37	1.8	9G12006	EPA 353.2	07/12/09 16:57	PEV	
Nitrite as N [14797-65-0]	**0.37**	J	mg/kg dry	1	0.099	1.8	9G09002	EPA 353.2	07/09/09 16:44	AJB	
pH [ECL-0062]	**5.8**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**730**	D	mg/kg dry	4	45	57	9G09012	EPA 365.4	07/10/09 14:53	AJB	
Sulfate as SO4 [14808-79-8]	**49**	J	mg/kg dry	1	1.4	89	9G10027	EPA 9056A	07/10/09 18:43	PEV	

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

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Description:	Soil-8	**Lab Sample ID:**	C907671-02	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	80.2

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
2-Butanone [78-93-3] ^	0.0008	U	mg/kg dry	1	0.0008	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
2-Hexanone [591-78-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Acetone [67-64-1] ^	0.001	U	mg/kg dry	1	0.001	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.010	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Iodomethane [74-88-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.0004**	J	mg/kg dry	1	0.0004	0.002	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Methylene chloride [75-09-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Toluene [108-88-3] ^	**0.0005**	J	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	
Xylenes (Total) [1330-20-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 14:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-8	**Lab Sample ID:**	C907671-02	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	80.2

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*61-118*	*9G08020*	*EPA 8260B*	*07/08/09 14:40*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*66-114*	*9G08020*	*EPA 8260B*	*07/08/09 14:40*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*63-118*	*9G08020*	*EPA 8260B*	*07/08/09 14:40*	*JKG*	

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Description:	Soil-8	**Lab Sample ID:**	C907671-02	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	80.2

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.21**	J	mg/kg dry	1	0.324	1.25	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Arsenic [7440-38-2] ^	**2.20**		mg/kg dry	1	0.299	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Barium [7440-39-3] ^	**36.2**		mg/kg dry	1	0.105	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Beryllium [7440-41-7] ^	**0.529**		mg/kg dry	1	0.00411	0.0623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Cadmium [7440-43-9] ^	**0.0475**	J	mg/kg dry	1	0.00810	0.0623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Chromium [7440-47-3] ^	**36.2**	B	mg/kg dry	1	0.0399	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	QB-01
Cobalt [7440-48-4] ^	**4.49**		mg/kg dry	1	0.0199	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Copper [7440-50-8] ^	**13.1**	B	mg/kg dry	1	0.0735	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	QB-01
Lead [7439-92-1] ^	**18.3**		mg/kg dry	1	0.0860	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Nickel [7440-02-0] ^	**10.6**		mg/kg dry	1	0.105	3.12	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Selenium [7782-49-2] ^	0.349	U	mg/kg dry	1	0.349	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Silver [7440-22-4] ^	0.0673	U	mg/kg dry	1	0.0673	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Thallium [7440-28-0] ^	0.199	U	mg/kg dry	1	0.199	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Vanadium [7440-62-2] ^	**57.2**		mg/kg dry	1	0.0411	0.623	9G08012	EPA 6010C	07/13/09 11:58	VLO	
Zinc [7440-66-6] ^	**19.0**		mg/kg dry	1	2.12	3.12	9G08012	EPA 6010C	07/13/09 11:58	VLO	

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Description:	Soil-8	**Lab Sample ID:**	C907671-02	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	80.2

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	**4.3**		mg/kg dry	1	0.070	1.2	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	**4.4**		mg/kg dry	1	0.26	1.2	9G12006	EPA 353.2	07/12/09 17:03	PEV	
Nitrite as N [14797-65-0]	**0.074**	J	mg/kg dry	1	0.070	1.2	9G09002	EPA 353.2	07/09/09 16:48	AJB	
pH [ECL-0062]	**7.5**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**330**	D	mg/kg dry	2	16	20	9G09012	EPA 365.4	07/10/09 14:54	AJB	
Sulfate as SO4 [14808-79-8]	**52**	J	mg/kg dry	1	0.97	62	9G10027	EPA 9056A	07/10/09 19:00	PEV	

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Description:	Soil-10	**Lab Sample ID:**	C907671-03	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:30	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	84.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
2-Butanone [78-93-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
2-Hexanone [591-78-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Acetone [67-64-1] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Acrylonitrile [107-13-1] ^	0.001	U	mg/kg dry	1	0.001	0.009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Carbon disulfide [75-15-0] ^	0.0003	U	mg/kg dry	1	0.0003	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Iodomethane [74-88-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.0008**	J	mg/kg dry	1	0.0003	0.002	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Methylene chloride [75-09-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
o-Xylene [95-47-6] ^	**0.0007**	J	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Trichloroethene [79-01-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Vinyl acetate [108-05-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	
Xylenes (Total) [1330-20-7] ^	**0.002**		mg/kg dry	1	0.0005	0.0009	9G08020	EPA 8260B	07/08/09 15:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	Soil-10	**Lab Sample ID:**	C907671-03	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:30	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	84.7

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*61-118*	*9G08020*	*EPA 8260B*	*07/08/09 15:09*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*66-114*	*9G08020*	*EPA 8260B*	*07/08/09 15:09*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*88 %*	*63-118*	*9G08020*	*EPA 8260B*	*07/08/09 15:09*	*JKG*	

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Description:	Soil-10	**Lab Sample ID:**	C907671-03	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:30	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	84.7

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.685**	J	mg/kg dry	1	0.307	1.18	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Arsenic [7440-38-2] ^	**6.98**		mg/kg dry	1	0.283	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Barium [7440-39-3] ^	**51.7**		mg/kg dry	1	0.0992	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Beryllium [7440-41-7] ^	**1.21**		mg/kg dry	1	0.00390	0.0591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Cadmium [7440-43-9] ^	**0.148**		mg/kg dry	1	0.00768	0.0591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Chromium [7440-47-3] ^	**23.4**	B	mg/kg dry	1	0.0378	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	QB-01
Cobalt [7440-48-4] ^	**14.3**		mg/kg dry	1	0.0189	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Copper [7440-50-8] ^	**21.3**	B	mg/kg dry	1	0.0697	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	QB-01
Lead [7439-92-1] ^	**26.2**		mg/kg dry	1	0.0815	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Nickel [7440-02-0] ^	**12.7**		mg/kg dry	1	0.0992	2.95	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Selenium [7782-49-2] ^	0.331	U	mg/kg dry	1	0.331	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Silver [7440-22-4] ^	0.0638	U	mg/kg dry	1	0.0638	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Thallium [7440-28-0] ^	0.189	U	mg/kg dry	1	0.189	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Vanadium [7440-62-2] ^	**52.4**		mg/kg dry	1	0.0390	0.591	9G08012	EPA 6010C	07/13/09 12:00	VLO	
Zinc [7440-66-6] ^	**42.5**		mg/kg dry	1	2.01	2.95	9G08012	EPA 6010C	07/13/09 12:00	VLO	

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Description:	Soil-10	**Lab Sample ID:**	C907671-03	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 09:30	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	84.7

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.066	U	mg/kg dry	1	0.066	1.2	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.25	U	mg/kg dry	1	0.25	1.2	9G12006	EPA 353.2	07/12/09 17:08	PEV	
Nitrite as N [14797-65-0]	**1.5**		mg/kg dry	1	0.066	1.2	9G09002	EPA 353.2	07/09/09 16:49	AJB	
pH [ECL-0062]	**8.0**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**340**	D	mg/kg dry	3.02	22	29	9G09012	EPA 365.4	07/10/09 14:55	AJB	
Sulfate as SO4 [14808-79-8]	**48**	J	mg/kg dry	1	0.92	59	9G10027	EPA 9056A	07/10/09 19:16	PEV	

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Description:	Soil-11	**Lab Sample ID:**	C907671-04	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	77.8

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.001	U	mg/kg dry	1	0.001	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
2-Butanone [78-93-3] ^	0.001	U	mg/kg dry	1	0.001	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
2-Hexanone [591-78-6] ^	0.001	U	mg/kg dry	1	0.001	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Acetone [67-64-1] ^	0.002	U	mg/kg dry	1	0.002	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.013	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Bromochloromethane [74-97-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Bromodichloromethane [75-27-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Bromoform [75-25-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Bromomethane [74-83-9] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Carbon disulfide [75-15-0] ^	0.0005	U	mg/kg dry	1	0.0005	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Dibromochloromethane [124-48-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Ethylbenzene [100-41-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Iodomethane [74-88-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.003	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Methylene chloride [75-09-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
o-Xylene [95-47-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Tetrachloroethene [127-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Toluene [108-88-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Vinyl acetate [108-05-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.006	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Vinyl chloride [75-01-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.0007	U	mg/kg dry	1	0.0007	0.001	9G08020	EPA 8260B	07/08/09 15:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	Soil-11	**Lab Sample ID:**	C907671-04	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	77.8

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*61-118*	*9G08020*	*EPA 8260B*	*07/08/09 15:38*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*66-114*	*9G08020*	*EPA 8260B*	*07/08/09 15:38*	*JKG*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*63-118*	*9G08020*	*EPA 8260B*	*07/08/09 15:38*	*JKG*	

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Description:	Soil-11	**Lab Sample ID:**	C907671-04	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	77.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.334	U	mg/kg dry	1	0.334	1.29	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Arsenic [7440-38-2] ^	**4.77**		mg/kg dry	1	0.309	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Barium [7440-39-3] ^	**113**		mg/kg dry	1	0.108	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Beryllium [7440-41-7] ^	**0.888**		mg/kg dry	1	0.00424	0.0643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Cadmium [7440-43-9] ^	**0.184**		mg/kg dry	1	0.00836	0.0643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Chromium [7440-47-3] ^	**28.1**	B	mg/kg dry	1	0.0411	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	QB-01
Cobalt [7440-48-4] ^	**5.60**		mg/kg dry	1	0.0206	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Copper [7440-50-8] ^	**12.7**	B	mg/kg dry	1	0.0759	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	QB-01
Lead [7439-92-1] ^	**24.6**		mg/kg dry	1	0.0887	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Nickel [7440-02-0] ^	**8.07**		mg/kg dry	1	0.108	3.21	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Selenium [7782-49-2] ^	0.360	U	mg/kg dry	1	0.360	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Silver [7440-22-4] ^	**0.143**	J	mg/kg dry	1	0.0694	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Thallium [7440-28-0] ^	0.206	U	mg/kg dry	1	0.206	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Vanadium [7440-62-2] ^	**54.8**		mg/kg dry	1	0.0424	0.643	9G08012	EPA 6010C	07/13/09 12:02	VLO	
Zinc [7440-66-6] ^	**31.9**		mg/kg dry	1	2.19	3.21	9G08012	EPA 6010C	07/13/09 12:02	VLO	

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Description:	Soil-11	**Lab Sample ID:**	C907671-04	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:45	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	77.8

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	**0.87**	J	mg/kg dry	1	0.072	1.3	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	**1.2**	J	mg/kg dry	1	0.27	1.3	9G12006	EPA 353.2	07/12/09 17:10	PEV	
Nitrite as N [14797-65-0]	**0.36**	J	mg/kg dry	1	0.072	1.3	9G09002	EPA 353.2	07/09/09 16:51	AJB	
pH [ECL-0062]	**6.3**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**560**	D	mg/kg dry	4	32	41	9G09012	EPA 365.4	07/10/09 14:57	AJB	
Sulfate as SO4 [14808-79-8]	**28**	J	mg/kg dry	1	1.0	64	9G10027	EPA 9056A	07/10/09 19:33	PEV	

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

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Description:	Soil-12	**Lab Sample ID:**	C907671-05	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 14:25	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	62.9

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.001	U	mg/kg dry	1	0.001	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
2-Butanone [78-93-3] ^	0.001	U	mg/kg dry	1	0.001	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
2-Hexanone [591-78-6] ^	0.001	U	mg/kg dry	1	0.001	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0008	U	mg/kg dry	1	0.0008	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Acetone [67-64-1] ^	**0.011**		mg/kg dry	1	0.002	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.013	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Bromochloromethane [74-97-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Bromodichloromethane [75-27-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Bromoform [75-25-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Bromomethane [74-83-9] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Carbon disulfide [75-15-0] ^	0.0005	U	mg/kg dry	1	0.0005	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Carbon tetrachloride [56-23-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Dibromochloromethane [124-48-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Ethylbenzene [100-41-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Iodomethane [74-88-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.003	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Methylene chloride [75-09-2] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
o-Xylene [95-47-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Tetrachloroethene [127-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Toluene [108-88-3] ^	**0.0006**	J	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Trichloroethene [79-01-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Vinyl acetate [108-05-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.007	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Vinyl chloride [75-01-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	
Xylenes (Total) [1330-20-7] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	9G08020	EPA 8260B	07/08/09 16:07	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-12	**Lab Sample ID:**	C907671-05	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 14:25	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	62.9

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*61-118*	*9G08020*	*EPA 8260B*	*07/08/09 16:07*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*66-114*	*9G08020*	*EPA 8260B*	*07/08/09 16:07*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*63-118*	*9G08020*	*EPA 8260B*	*07/08/09 16:07*	*JKG*	

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Description:	Soil-12	**Lab Sample ID:**	C907671-05	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 14:25	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	62.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**2.42**		mg/kg dry	1	0.414	1.59	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Arsenic [7440-38-2] ^	**4.59**		mg/kg dry	1	0.382	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Barium [7440-39-3] ^	**118**		mg/kg dry	1	0.134	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Beryllium [7440-41-7] ^	**1.34**		mg/kg dry	1	0.00525	0.0795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Cadmium [7440-43-9] ^	**0.297**		mg/kg dry	1	0.0103	0.0795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Chromium [7440-47-3] ^	**57.0**	B	mg/kg dry	1	0.0509	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	QB-01
Cobalt [7440-48-4] ^	**10.6**		mg/kg dry	1	0.0255	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Copper [7440-50-8] ^	**18.4**	B	mg/kg dry	1	0.0939	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	QB-01
Lead [7439-92-1] ^	**23.5**		mg/kg dry	1	0.110	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Nickel [7440-02-0] ^	**16.4**		mg/kg dry	1	0.134	3.98	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Selenium [7782-49-2] ^	0.445	U	mg/kg dry	1	0.445	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Silver [7440-22-4] ^	0.0859	U	mg/kg dry	1	0.0859	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Thallium [7440-28-0] ^	0.255	U	mg/kg dry	1	0.255	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Vanadium [7440-62-2] ^	**76.3**		mg/kg dry	1	0.0525	0.795	9G08012	EPA 6010C	07/13/09 12:05	VLO	
Zinc [7440-66-6] ^	**46.1**		mg/kg dry	1	2.70	3.98	9G08012	EPA 6010C	07/13/09 12:05	VLO	

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Description:	Soil-12	**Lab Sample ID:**	C907671-05	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 14:25	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	62.9

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	**0.67**	J	mg/kg dry	1	0.089	1.6	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	**0.87**	J	mg/kg dry	1	0.33	1.6	9G12006	EPA 353.2	07/12/09 17:12	PEV	
Nitrite as N [14797-65-0]	**0.21**	J	mg/kg dry	1	0.089	1.6	9G09002	EPA 353.2	07/09/09 16:52	AJB	
pH [ECL-0062]	**6.2**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**700**	D	mg/kg dry	4	40	51	9G09012	EPA 365.4	07/10/09 14:58	AJB	
Sulfate as SO4 [14808-79-8]	**34**	J	mg/kg dry	1	1.2	80	9G10027	EPA 9056A	07/10/09 19:50	PEV	

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

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Description:	Soil-15	**Lab Sample ID:**	C907671-06	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 11:20	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	20.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0009	U	mg/kg dry	1	0.0009	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.003	U	mg/kg dry	1	0.003	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0009	U	mg/kg dry	1	0.0009	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
2-Butanone [78-93-3] ^	**0.13**		mg/kg dry	1	0.003	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
2-Hexanone [591-78-6] ^	0.003	U	mg/kg dry	1	0.003	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.002	U	mg/kg dry	1	0.002	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Acetone [67-64-1] ^	**0.56**		mg/kg dry	1	0.005	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Acrylonitrile [107-13-1] ^	0.007	U	mg/kg dry	1	0.007	0.043	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Benzene [71-43-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Bromochloromethane [74-97-5] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Bromodichloromethane [75-27-4] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Bromoform [75-25-2] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Bromomethane [74-83-9] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Carbon disulfide [75-15-0] ^	0.002	U	mg/kg dry	1	0.002	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.0009	U	mg/kg dry	1	0.0009	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Chlorobenzene [108-90-7] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Chloroethane [75-00-3] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Chloroform [67-66-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Chloromethane [74-87-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Dibromochloromethane [124-48-1] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Dibromomethane [74-95-3] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Ethylbenzene [100-41-4] ^	0.0009	U	mg/kg dry	1	0.0009	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Iodomethane [74-88-4] ^	0.002	U	mg/kg dry	1	0.002	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.002	U	mg/kg dry	1	0.002	0.009	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Methylene chloride [75-09-2] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
o-Xylene [95-47-6] ^	0.0009	U	mg/kg dry	1	0.0009	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Styrene [100-42-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Tetrachloroethene [127-18-4] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Toluene [108-88-3] ^	**0.98**	E	mg/kg dry	1	0.0009	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Trichloroethene [79-01-6] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Vinyl acetate [108-05-4] ^	0.002	U	mg/kg dry	1	0.002	0.021	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Vinyl chloride [75-01-4] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	
Xylenes (Total) [1330-20-7] ^	0.002	U	mg/kg dry	1	0.002	0.004	9G08020	EPA 8260B	07/08/09 16:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-15	**Lab Sample ID:**	C907671-06	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 11:20	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	20.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*61-118*	*9G08020*	*EPA 8260B*	*07/08/09 16:36*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*66-114*	*9G08020*	*EPA 8260B*	*07/08/09 16:36*	*JKG*	
Toluene-d8	*44*	*1*	*50.0*	*89 %*	*63-118*	*9G08020*	*EPA 8260B*	*07/08/09 16:36*	*JKG*	

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Description:	Soil-15	**Lab Sample ID:**	C907671-06	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 11:20	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	20.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**6.85**		mg/kg dry	1	1.28	4.91	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Arsenic [7440-38-2] ^	**9.48**		mg/kg dry	1	1.18	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Barium [7440-39-3] ^	**255**		mg/kg dry	1	0.413	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Beryllium [7440-41-7] ^	**3.07**		mg/kg dry	1	0.0162	0.246	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Cadmium [7440-43-9] ^	**0.707**		mg/kg dry	1	0.0319	0.246	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Chromium [7440-47-3] ^	**126**	B	mg/kg dry	1	0.157	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	QB-01
Cobalt [7440-48-4] ^	**18.8**		mg/kg dry	1	0.0786	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Copper [7440-50-8] ^	**45.1**	B	mg/kg dry	1	0.290	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	QB-01
Lead [7439-92-1] ^	**54.1**		mg/kg dry	1	0.339	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Nickel [7440-02-0] ^	**37.6**		mg/kg dry	1	0.413	12.3	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Selenium [7782-49-2] ^	1.38	U	mg/kg dry	1	1.38	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Silver [7440-22-4] ^	0.265	U	mg/kg dry	1	0.265	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Thallium [7440-28-0] ^	0.786	U	mg/kg dry	1	0.786	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Vanadium [7440-62-2] ^	**176**		mg/kg dry	1	0.162	2.46	9G08012	EPA 6010C	07/13/09 12:07	VLO	
Zinc [7440-66-6] ^	**134**		mg/kg dry	1	8.35	12.3	9G08012	EPA 6010C	07/13/09 12:07	VLO	

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Description:	Soil-15	**Lab Sample ID:**	C907671-06	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 11:20	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	20.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.28	U	mg/kg dry	1	0.28	4.9	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	1.0	U	mg/kg dry	1	1.0	4.9	9G12006	EPA 353.2	07/12/09 17:14	PEV	
Nitrite as N [14797-65-0]	**1.4**	J	mg/kg dry	1	0.28	4.9	9G09002	EPA 353.2	07/09/09 16:53	AJB	
pH [ECL-0062]	**6.3**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**1300**	D	mg/kg dry	2	62	79	9G09012	EPA 365.4	07/10/09 14:59	AJB	
Sulfate as SO4 [14808-79-8]	**120**	J	mg/kg dry	1	3.8	250	9G10027	EPA 9056A	07/10/09 20:06	PEV	

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Description:	Soil-16	**Lab Sample ID:**	C907671-07	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:00	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	29.2

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0008	U	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0009	U	mg/kg dry	1	0.0009	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,1-Dichloroethene [75-35-4] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.003	U	mg/kg dry	1	0.003	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,2-Dibromoethane [106-93-4] ^	0.002	U	mg/kg dry	1	0.002	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0009	U	mg/kg dry	1	0.0009	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,2-Dichloroethane [107-06-2] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0009	U	mg/kg dry	1	0.0009	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0007	U	mg/kg dry	1	0.0007	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
2-Butanone [78-93-3] ^	**1.4**		mg/kg dry	1	0.003	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
2-Hexanone [591-78-6] ^	**0.073**		mg/kg dry	1	0.003	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.002	U	mg/kg dry	1	0.002	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Acetone [67-64-1] ^	**1.8**		mg/kg dry	1	0.004	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Acrylonitrile [107-13-1] ^	0.005	U	mg/kg dry	1	0.005	0.034	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Benzene [71-43-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Bromochloromethane [74-97-5] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Bromodichloromethane [75-27-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Bromoform [75-25-2] ^	0.002	U	mg/kg dry	1	0.002	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Bromomethane [74-83-9] ^	0.0008	U	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Carbon disulfide [75-15-0] ^	**0.003**	J	mg/kg dry	1	0.001	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Carbon tetrachloride [56-23-5] ^	0.0008	U	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Chlorobenzene [108-90-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Chloroethane [75-00-3] ^	0.0009	U	mg/kg dry	1	0.0009	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Chloroform [67-66-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Chloromethane [74-87-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0008	U	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Dibromochloromethane [124-48-1] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Dibromomethane [74-95-3] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Ethylbenzene [100-41-4] ^	**0.005**		mg/kg dry	1	0.0007	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Iodomethane [74-88-4] ^	0.002	U	mg/kg dry	1	0.002	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.001**	J	mg/kg dry	1	0.001	0.007	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Methylene chloride [75-09-2] ^	0.002	U	mg/kg dry	1	0.002	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
o-Xylene [95-47-6] ^	**0.002**	J	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Styrene [100-42-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Tetrachloroethene [127-18-4] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Toluene [108-88-3] ^	**0.26**		mg/kg dry	1	0.0007	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.001	U	mg/kg dry	1	0.001	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Trichloroethene [79-01-6] ^	0.0009	U	mg/kg dry	1	0.0009	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0009	U	mg/kg dry	1	0.0009	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Vinyl acetate [108-05-4] ^	0.002	U	mg/kg dry	1	0.002	0.017	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Vinyl chloride [75-01-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	
Xylenes (Total) [1330-20-7] ^	**0.004**		mg/kg dry	1	0.002	0.003	9G09009	EPA 8260B	07/17/09 14:58	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-16	**Lab Sample ID:**	C907671-07	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:00	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	29.2

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*39*	*1*	*50.0*	*79 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 14:58*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 14:58*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 14:58*	*JKG*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**2.88**	J	mg/kg dry	1	0.890	3.42	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Arsenic [7440-38-2] ^	**4.25**		mg/kg dry	1	0.821	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Barium [7440-39-3] ^	**149**		mg/kg dry	1	0.287	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Beryllium [7440-41-7] ^	**1.44**		mg/kg dry	1	0.0113	0.171	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Cadmium [7440-43-9] ^	**0.158**	J	mg/kg dry	1	0.0222	0.171	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Chromium [7440-47-3] ^	**63.6**	B	mg/kg dry	1	0.109	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	QB-01
Cobalt [7440-48-4] ^	**8.47**		mg/kg dry	1	0.0547	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Copper [7440-50-8] ^	**31.8**	B	mg/kg dry	1	0.202	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	QB-01
Lead [7439-92-1] ^	**32.7**		mg/kg dry	1	0.236	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Nickel [7440-02-0] ^	**19.8**		mg/kg dry	1	0.287	8.55	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Selenium [7782-49-2] ^	0.958	U	mg/kg dry	1	0.958	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Silver [7440-22-4] ^	**0.293**	J	mg/kg dry	1	0.185	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Thallium [7440-28-0] ^	0.547	U	mg/kg dry	1	0.547	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Vanadium [7440-62-2] ^	**90.5**		mg/kg dry	1	0.113	1.71	9G08012	EPA 6010C	07/13/09 12:10	VLO	
Zinc [7440-66-6] ^	**70.4**		mg/kg dry	1	5.82	8.55	9G08012	EPA 6010C	07/13/09 12:10	VLO	

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Description:	Soil-16	**Lab Sample ID:**	C907671-07	**Received:**	07/08/09 10:30
Matrix:	Soil	**Sampled:**	07/07/09 10:00	**Work Order:**	C907671
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	29.2

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.19	U	mg/kg dry	1	0.19	3.4	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.72	U	mg/kg dry	1	0.72	3.4	9G12006	EPA 353.2	07/12/09 17:16	PEV	
Nitrite as N [14797-65-0]	**0.59**	J	mg/kg dry	1	0.19	3.4	9G09002	EPA 353.2	07/09/09 16:56	AJB	
pH [ECL-0062]	**6.3**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**1300**	D	mg/kg dry	3.02	65	83	9G09012	EPA 365.4	07/10/09 15:01	AJB	
Sulfate as SO4 [14808-79-8]	**110**	J	mg/kg dry	1	2.7	170	9G10027	EPA 9056A	07/10/09 20:56	PEV	

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 9G08020 - EPA 5035_MS

Blank (9G08020-BLK1) Prepared: 07/08/2009 07:36 Analyzed: 07/08/2009 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G08020 - EPA 5035_MS

Blank (9G08020-BLK1) Continued Prepared: 07/08/2009 07:36 Analyzed: 07/08/2009 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*61-118*			
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*66-114*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*91*	*63-118*			

LCS (9G08020-BS1) Prepared: 07/08/2009 07:36 Analyzed: 07/08/2009 10:59

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		93	64-133			
Benzene	18		1.0	ug/L	20.0		90	79-129			
Chlorobenzene	18		1.0	ug/L	20.0		88	79-121			
Toluene	19		1.0	ug/L	20.0		95	77-120			
Trichloroethene	17		1.0	ug/L	20.0		83	78-118			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*63-118*			

Matrix Spike (9G08020-MS1) Prepared: 07/08/2009 07:36 Analyzed: 07/08/2009 11:28

Source: C907764-08

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	0.30 U	93	64-133			
Benzene	18		1.0	ug/L	20.0	0.17 U	91	79-129			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	79-121			
Toluene	19		1.0	ug/L	20.0	0.20 U	97	77-120			
Trichloroethene	17		1.0	ug/L	20.0	0.27 U	85	78-118			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*61-118*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*66-114*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*63-118*			

Matrix Spike Dup (9G08020-MSD1) Prepared: 07/08/2009 07:36 Analyzed: 07/08/2009 11:56

Source: C907764-08

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	0.30 U	86	64-133	9	23	
Benzene	17		1.0	ug/L	20.0	0.17 U	85	79-129	7	23	
Chlorobenzene	16		1.0	ug/L	20.0	0.17 U	82	79-121	9	25	
Toluene	18		1.0	ug/L	20.0	0.20 U	91	77-120	7	23	
Trichloroethene	15		1.0	ug/L	20.0	0.27 U	77	78-118	9	24	QM-07
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*61-118*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*66-114*			
Surrogate: Toluene-d8	*44*			*ug/L*	*50.0*		*88*	*63-118*			

Batch 9G09009 - EPA 5035_MS

Blank (9G09009-BLK1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 11:56

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G09009 - EPA 5035_MS

Blank (9G09009-BLK1) Continued Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G09009 - EPA 5035_MS

Blank (9G09009-BLK1) Continued Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*101*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*63-118*			

LCS (9G09009-BS1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 12:55

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		90	64-133			
Benzene	18		1.0	ug/L	20.0		88	79-129			
Chlorobenzene	19		1.0	ug/L	20.0		94	79-121			
Toluene	20		1.0	ug/L	20.0		100	77-120			
Trichloroethene	18		1.0	ug/L	20.0		90	78-118			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*66-114*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*63-118*			

Matrix Spike (9G09009-MS1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 13:25

Source: C907903-06

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	0.30 U	88	64-133			
Benzene	18		1.0	ug/L	20.0	0.17 U	91	79-129			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	79-121			
Toluene	20		1.0	ug/L	20.0	0.20 U	102	77-120			
Trichloroethene	19		1.0	ug/L	20.0	0.27 U	94	78-118			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*63-118*			

Matrix Spike Dup (9G09009-MSD1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 13:55

Source: C907903-06

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	0.30 U	87	64-133	2	23	
Benzene	17		1.0	ug/L	20.0	0.17 U	85	79-129	8	23	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	79-121	6	25	
Toluene	20		1.0	ug/L	20.0	0.20 U	99	77-120	3	23	
Trichloroethene	18		1.0	ug/L	20.0	0.27 U	88	78-118	6	24	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*63-118*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

Blank (9G08012-BLK1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:31

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

Blank (9G08012-BLK1) Continued Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.260	U	1.00	mg/kg wet							
Arsenic	0.240	U	0.500	mg/kg wet							
Barium	0.0840	U	0.500	mg/kg wet							
Beryllium	0.00330	U	0.0500	mg/kg wet							
Cadmium	0.00650	U	0.0500	mg/kg wet							
Chromium	**0.0330**	**J**	0.500	mg/kg wet							
Cobalt	0.0160	U	0.500	mg/kg wet							
Copper	**0.0680**	**J**	0.500	mg/kg wet							
Lead	0.0690	U	0.500	mg/kg wet							
Nickel	0.0840	U	2.50	mg/kg wet							
Selenium	0.280	U	0.500	mg/kg wet							
Silver	0.0540	U	0.500	mg/kg wet							
Thallium	0.160	U	0.500	mg/kg wet							
Vanadium	0.0330	U	0.500	mg/kg wet							
Zinc	1.70	U	2.50	mg/kg wet							

LCS (9G08012-BS1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.6		1.00	mg/kg wet	25.0		103	85-115			
Arsenic	51.4		0.500	mg/kg wet	50.0		103	85-115			
Barium	51.7		0.500	mg/kg wet	50.0		103	85-115			
Beryllium	26.1		0.0500	mg/kg wet	25.0		105	85-115			
Cadmium	26.0		0.0500	mg/kg wet	25.0		104	85-115			
Chromium	52.6	B	0.500	mg/kg wet	50.0		105	85-115			
Cobalt	51.5		0.500	mg/kg wet	50.0		103	85-115			
Copper	26.2	B	0.500	mg/kg wet	25.0		105	85-115			
Lead	51.9		0.500	mg/kg wet	50.0		104	85-115			
Nickel	52.2		2.50	mg/kg wet	50.0		104	85-115			
Selenium	51.6		0.500	mg/kg wet	50.0		103	85-115			
Silver	5.26		0.500	mg/kg wet	5.00		105	85-115			
Thallium	25.6		0.500	mg/kg wet	25.0		102	85-115			
Vanadium	26.5		0.500	mg/kg wet	25.0		106	85-115			
Zinc	52.4		2.50	mg/kg wet	50.0		105	85-115			

Matrix Spike (9G08012-MS1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:39

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	30.7		2.96	mg/kg dry	74.8	7.69	31	80-120			QM-07
Arsenic	166		1.48	mg/kg dry	150	16.3	100	80-120			
Barium	420		1.48	mg/kg dry	150	278	95	80-120			
Beryllium	79.5		0.148	mg/kg dry	74.8	2.64	103	80-120			
Cadmium	68.8		0.148	mg/kg dry	74.8	0.408	91	80-120			
Chromium	301	B	1.48	mg/kg dry	150	164	92	80-120			
Cobalt	147		1.48	mg/kg dry	150	7.25	93	80-120			
Copper	98.9	B	1.48	mg/kg dry	74.8	25.5	98	80-120			
Lead	146		1.48	mg/kg dry	150	10.6	90	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

Matrix Spike (9G08012-MS1) Continued Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:39

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	166		7.41	mg/kg dry	150	24.0	95	80-120			
Selenium	155		1.48	mg/kg dry	150	6.96	99	80-120			
Silver	14.8		1.48	mg/kg dry	15.0	0.160 U	99	80-120			
Thallium	46.8		1.48	mg/kg dry	74.8	0.474 U	62	80-120			QM-07
Vanadium	145		1.48	mg/kg dry	74.8	69.4	101	80-120			
Zinc	201		7.41	mg/kg dry	150	66.2	90	80-120			

Matrix Spike Dup (9G08012-MSD1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:41

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	32.0		2.96	mg/kg dry	74.8	7.69	33	80-120	4	30	QM-07
Arsenic	165		1.48	mg/kg dry	150	16.3	99	80-120	0.2	30	
Barium	408		1.48	mg/kg dry	150	278	87	80-120	3	30	
Beryllium	79.1		0.148	mg/kg dry	74.8	2.64	102	80-120	0.5	30	
Cadmium	68.4		0.148	mg/kg dry	74.8	0.408	91	80-120	0.6	30	
Chromium	297	B	1.48	mg/kg dry	150	164	89	80-120	1	30	
Cobalt	148		1.48	mg/kg dry	150	7.25	94	80-120	0.6	30	
Copper	97.5	B	1.48	mg/kg dry	74.8	25.5	96	80-120	1	30	
Lead	147		1.48	mg/kg dry	150	10.6	91	80-120	0.6	30	
Nickel	167		7.41	mg/kg dry	150	24.0	95	80-120	0.5	30	
Selenium	155		1.48	mg/kg dry	150	6.96	99	80-120	0.02	30	
Silver	14.7		1.48	mg/kg dry	15.0	0.160 U	98	80-120	0.6	30	
Thallium	46.5		1.48	mg/kg dry	74.8	0.474 U	62	80-120	0.5	30	QM-07
Vanadium	142		1.48	mg/kg dry	74.8	69.4	98	80-120	2	30	
Zinc	198		7.41	mg/kg dry	150	66.2	88	80-120	2	30	

Post Spike (9G08012-PS1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:43

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.562		0.0200	mg/L	0.500	0.0514	102	80-120			
Arsenic	1.18		0.0100	mg/L	1.00	0.109	108	80-120			
Barium	2.85		0.0100	mg/L	1.00	1.86	99	80-120			
Beryllium	0.568		0.00100	mg/L	0.500	0.0177	110	80-120			
Cadmium	0.493		0.00100	mg/L	0.500	0.00273	98	80-120			
Chromium	2.11	B	0.0100	mg/L	1.00	1.09	102	80-120			
Cobalt	1.06		0.0100	mg/L	1.00	0.0484	101	80-120			
Copper	0.693	B	0.0100	mg/L	0.500	0.170	104	80-120			
Lead	1.05		0.0100	mg/L	1.00	0.0707	98	80-120			
Nickel	1.19		0.0500	mg/L	1.00	0.161	103	80-120			
Selenium	1.12		0.0100	mg/L	1.00	0.0465	108	80-120			
Silver	0.0932		0.0100	mg/L	0.100	-0.00570	99	80-120			
Thallium	0.343		0.0100	mg/L	0.500	-0.137	96	80-120			
Vanadium	1.00		0.0100	mg/L	0.500	0.464	108	80-120			
Zinc	1.41		0.0500	mg/L	1.00	0.442	96	80-120			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

Classical Chemistry Parameters - Quality Control

Batch 9G09002 - WETS-88 Soil Leaching

Blank (9G09002-BLK1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.056	U	1.0	mg/kg wet							

LCS (9G09002-BS1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		100	80-120			

Matrix Spike (9G09002-MS1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:46

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.98		0.10	mg/L	1.00	0.022	96	80-120			

Matrix Spike Dup (9G09002-MSD1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:47

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.022	98	80-120	2	25	

Batch 9G09012 - Same

Blank (9G09012-BLK1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	6.3	U	8.0	mg/kg wet							

LCS (9G09012-BS1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	130		8.0	mg/kg wet	125		100	80-120			

Matrix Spike (9G09012-MS1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:47

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	890	E	14	mg/kg dry	219	770	53	80-120			QM-02

Matrix Spike Dup (9G09012-MSD1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:48

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	900	E	14	mg/kg dry	223	770	55	80-120	0.7	25	QM-02

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G10007 - Same

LCS (9G10007-BS1) Prepared & Analyzed: 07/10/2009 15:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.01		100	99-101			

Duplicate (9G10007-DUP1) Prepared: 07/10/2009 10:32 Analyzed: 07/10/2009 15:30

Source: C907933-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.9		1.0	pH Units		7.6			4	25	Q

Batch 9G10027 - WETS-88 Soil Leaching

Blank (9G10027-BLK1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 17:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.78	U	50	mg/kg wet							

LCS (9G10027-BS1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 17:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		98	80-120			

Matrix Spike (9G10027-MS1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 18:10

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	51		5.0	mg/L	50.0	2.8	96	80-120			

Matrix Spike Dup (9G10027-MSD1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 18:26

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	52		5.0	mg/L	50.0	2.8	99	80-120	2	15	

Batch 9G12006 - WETS-88 Soil Leaching

Blank (9G12006-BLK1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.21	U	1.0	mg/kg wet							

LCS (9G12006-BS1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:55

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	1.28		91	80-120			

Matrix Spike (9G12006-MS1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:59

Source: C907671-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G12006 - WETS-88 Soil Leaching

Matrix Spike (9G12006-MS1) Continued Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:59

Source: C907671-01

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	1.28	0.03	87	80-120			

Matrix Spike Dup (9G12006-MSD1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 17:01

Source: C907671-01

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	1.28	0.03	91	80-120	4	25	

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.
Q	Analysis performed outside of method - specified holding time.
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.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 211
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: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47769~~
Tel: (704) 523-4726 Fax: (704) 525-1953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S+ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due 7/7/9

Lab Workorder: C907671

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers											Sample Comments
	Soil-7	7/7/09	1350	G	SO	4	X	X									
	Soil-8	7/7/09	0945	G	SO	4	X	X									
	Soil-9 1ft				SO	4	X	X									
	Soil-9 2ft				SO	4	X	X									
	Soil-9 3ft				SO	4	X	X									
	Soil-9 4ft				SO	4	X	X									
	Soil-9 5ft				SO	4	X	X									
	Soil-10	7/7/09	0930	G	SO	4	X	X									
	Soil-11	7/7/09	1045	G	SO	4	X	X									
	Soil-12	7/7/09	1425	G	SO	4	X	X									
	Soil-13				SO	4	X	X									
	Soil-14				SO	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CCG	07/03/09	[signature]	7/7/09 1700	Briana Gregory	7-8-09 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-891 C-507 C-286 0.9°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservative: 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 CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 825-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
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102-A Woodwinds Industrial Ct
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen SME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due 7/7/9

Lab Workorder: C907671

Box #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers											Sample Comments
	Soil-15	7/7/09	1120	G	SO	4	X	X									
	Soil-16	~~7/7/09~~	1000	G	SO	4	X	X									
	Soil-17				SO	4	X	X									
	Soil-				SO	4	X	X									
	Soil-				SO	4	X	X									
	Soil-				SO	4	X	X									
	Soil-				SO	4	X	X									
	Soil-				SO	4	X	X									
	Equipment Blank				WA	3		X									
	Trip Blank				WA	2		X									

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CCB	07/02/09	[signature]	7/7/09 1700	Briana Gregory	7-8-09 10:30
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #s & Temps on Receipt: C-491 C-507 C-286 2.9°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: 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

Wednesday, July 22, 2009

S&ME, Inc. (SM002)

Attn: Julie Petersen

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-09-006, Project Name/Desc: Lincoln County Leachate Assessment
ENCO Workorder: C907713

Dear Julie Petersen,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, July 8, 2009.

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 46.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-DISCHARGE **Lab ID:** C907713-01 **Sampled:** 07/07/09 11:30 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/04/09			07/10/09	10:26	7/10/2009 13:10
EPA 353.2	07/09/09	11:30		07/08/09	14:34	7/8/2009 16:33
EPA 353.2	08/04/09			07/12/09	13:50	7/12/2009 16:27
EPA 353.2	08/04/09			07/13/09	09:46	7/13/2009 09:46
EPA 365.4	08/04/09			07/09/09	11:57	7/10/2009 13:42
EPA 6010C	01/03/10			07/09/09	10:33	7/13/2009 10:57
EPA 6020A	01/03/10			07/09/09	10:42	7/14/2009 12:04
EPA 8260B	07/21/09			07/08/09	13:43	7/10/2009 04:05
SM 2540D	07/14/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/09/09	11:30	07/13/09	07/08/09	12:40	7/13/2009 14:23
SM 5220D	08/04/09			07/13/09	14:50	7/13/2009 18:10

Client ID: 5503-SW3 **Lab ID:** C907713-02 **Sampled:** 07/07/09 12:45 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/04/09			07/10/09	10:26	7/10/2009 13:26
EPA 353.2	07/09/09	12:45		07/08/09	14:34	7/8/2009 16:34
EPA 353.2	08/04/09			07/12/09	13:50	7/12/2009 16:29
EPA 353.2	08/04/09			07/13/09	09:46	7/13/2009 09:46
EPA 365.4	08/04/09			07/15/09	13:32	7/17/2009 15:35
EPA 6010C	01/03/10			07/09/09	10:33	7/13/2009 10:59
EPA 6020A	01/03/10			07/09/09	10:42	7/14/2009 12:07
EPA 8260B	07/21/09			07/08/09	13:43	7/10/2009 04:35
SM 2540D	07/14/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/09/09	12:45	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/04/09			07/13/09	14:50	7/13/2009 18:10

Client ID: 5503-SW6 **Lab ID:** C907713-03 **Sampled:** 07/07/09 11:15 **Received:** 07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/04/09			07/10/09	10:26	7/10/2009 13:43
EPA 353.2	07/09/09	11:15		07/08/09	14:34	7/8/2009 16:34
EPA 353.2	08/04/09			07/12/09	13:50	7/12/2009 16:31
EPA 353.2	08/04/09			07/13/09	09:46	7/13/2009 09:46
EPA 365.4	08/04/09			07/15/09	13:32	7/17/2009 15:36
EPA 6010C	01/03/10			07/09/09	10:33	7/13/2009 11:01
EPA 6020A	01/03/10			07/09/09	10:42	7/14/2009 12:11
EPA 8260B	07/21/09			07/08/09	13:43	7/10/2009 05:04
SM 2540D	07/14/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/09/09	11:15	07/13/09	07/08/09	12:40	7/13/2009 14:23
SM 5220D	08/04/09			07/13/09	14:50	7/13/2009 18:10

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Client ID:	5503-SW7	Lab ID:	C907713-04	Sampled:	07/07/09 10:10	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/04/09			07/10/09	10:26	7/10/2009 14:00
EPA 353.2	07/09/09	10:10		07/08/09	14:34	7/8/2009 16:35
EPA 353.2	08/04/09			07/12/09	13:50	7/12/2009 16:33
EPA 353.2	08/04/09			07/13/09	09:46	7/13/2009 09:46
EPA 365.4	08/04/09			07/15/09	13:32	7/17/2009 15:37
EPA 6010C	01/03/10			07/09/09	10:33	7/13/2009 11:04
EPA 6020A	01/03/10			07/09/09	10:42	7/14/2009 11:46
EPA 8260B	07/21/09			07/08/09	13:43	7/10/2009 05:33
SM 2540D	07/14/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/09/09	10:10	07/13/09	07/08/09	12:40	7/13/2009 14:23
SM 5220D	08/04/09			07/13/09	14:50	7/13/2009 18:10

Client ID:	5503-SW14	Lab ID:	C907713-05	Sampled:	07/07/09 14:10	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/04/09			07/10/09	10:26	7/10/2009 14:16
EPA 353.2	07/09/09	14:10		07/08/09	14:34	7/8/2009 16:36
EPA 353.2	08/04/09			07/12/09	13:50	7/12/2009 16:36
EPA 353.2	08/04/09			07/13/09	09:46	7/13/2009 09:46
EPA 365.4	08/04/09			07/15/09	13:32	7/17/2009 15:39
EPA 6010C	01/03/10			07/09/09	10:33	7/13/2009 11:06
EPA 6020A	01/03/10			07/09/09	10:42	7/14/2009 12:15
EPA 8260B	07/21/09			07/08/09	13:43	7/10/2009 09:28
SM 2540D	07/14/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/09/09	14:10	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/04/09			07/13/09	14:50	7/13/2009 18:10

Client ID:	5503-SW15	Lab ID:	C907713-06	Sampled:	07/07/09 14:45	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/04/09			07/10/09	10:26	7/10/2009 14:33
EPA 353.2	07/09/09	14:45		07/08/09	14:34	7/8/2009 16:38
EPA 353.2	08/04/09			07/12/09	13:50	7/12/2009 16:38
EPA 353.2	08/04/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/04/09			07/15/09	13:32	7/17/2009 15:40
EPA 6010C	01/03/10			07/09/09	10:33	7/13/2009 11:08
EPA 6020A	01/03/10			07/09/09	10:42	7/14/2009 12:25
EPA 8260B	07/21/09			07/08/09	13:43	7/10/2009 09:57
SM 2540D	07/14/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/09/09	14:45	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/04/09			07/13/09	14:50	7/13/2009 18:10

Client ID:	5503-Equipment Blank A	Lab ID:	C907713-07	Sampled:	07/07/09 09:10	Received:	07/08/09 10:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/21/09	07/10/09	10:21	7/10/2009 23:05

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-DISCHARGE **Lab ID: C907713-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	50.1	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	2.6		1	2.0	2.0	NE	mg/L	SM 5210B	
Chemical Oxygen Demand	35		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	1.39	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	2.36	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.12	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Nickel - Total	0.830	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.025	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.031	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0059	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Phosphorus	0.052	J	1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.3	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	21		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	2.53	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	47.5		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW3 **Lab ID: C907713-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.73	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	22.7	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.0937	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	4.4	J	1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	1.51	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	0.597	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.28	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.35	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.55	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.59		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.042	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Phosphorus	0.16		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	5.2	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	12		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	3.19	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	5.88	J	1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW6 **Lab ID: C907713-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	3.6	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium - Total	55.1	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	3.0		1	2.0	2.0	NE	mg/L	SM 5210B	
Chemical Oxygen Demand	41		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	2.37	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.04	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	0.933	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.33	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.025	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.031	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0059	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Phosphorus	0.11		1	0.050	0.10	NE	mg/L	EPA 365.4	

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Client ID: 5503-SW6 **Lab ID: C907713-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Selenium - Total	3.72	J	1	3.40	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	2.7	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	30		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	3.03	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	9.04	J	1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW7 **Lab ID: C907713-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	4.4	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Arsenic - Total	4.41	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	65.5	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	6.2		1	2.0	2.0	NE	mg/L	SM 5210B	
Chemical Oxygen Demand	55		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	1.36	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.42	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.39	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Lead - Total	1.70	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.04	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.026	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.032	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0057	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Phosphorus	0.13		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	8.3	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Toluene	1.4		1	0.27	1.0	1	ug/L	EPA 8260B	
Total Suspended Solids	14		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	1.29	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	20.2		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW14 **Lab ID: C907713-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.04	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	24.6	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Chemical Oxygen Demand	9.1	J	1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	1.25	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Copper - Total	0.950	J	1	0.810	10.0	10	ug/L	EPA 6010C	
Nickel - Total	0.708	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.47	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.48		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0083	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Sulfate as SO4	2.7	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	10		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	1.39	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	3.77	J	1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW15 **Lab ID: C907713-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	3.76	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	27.0	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.132	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chromium - Total	1.41	J	1	0.710	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.43	J	1	0.810	10.0	10	ug/L	EPA 6010C	

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Client ID: 5503-SW15						Lab ID: C907713-06			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Nickel - Total	1.41	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.67	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.68		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.013	JB	1	0.0056	0.10	1	mg/L	EPA 353.2	J-01
Phosphorus	0.12		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	4.3	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	26		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	1.59	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	3.60	J	1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-Equipment Blank A						Lab ID: C907713-07			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	41	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Chloroform	3.0	J	1	0.20	1.0	5	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 5503-DISCHARGE
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-01
Sampled: 07/07/09 11:30
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 04:05	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 04:05	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 04:05	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 04:05	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 04:05	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 04:05	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 04:05	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 04:05	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 04:05	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 04:05	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 04:05	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 04:05	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 04:05	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 04:05	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 04:05	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 04:05	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 04:05	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 04:05	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:05	JKG	

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Description:	5503-DISCHARGE	**Lab Sample ID:**	C907713-01	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 11:30	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 04:05	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 04:05	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 04:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 04:05*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 04:05*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 04:05*	*JKG*	

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Description: 5503-DISCHARGE
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-01
Sampled: 07/07/09 11:30
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:04	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Barium [7440-39-3] ^	**50.1**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/13/09 10:57	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/13/09 10:57	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/13/09 10:57	VLO	
Chromium [7440-47-3] ^	**1.39**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Cobalt [7440-48-4] ^	**2.36**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Copper [7440-50-8] ^	**1.12**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Nickel [7440-02-0] ^	**0.830**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/13/09 10:57	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/13/09 10:57	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:04	VLO	
Vanadium [7440-62-2] ^	**2.53**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/13/09 10:57	VLO	
Zinc [7440-66-6] ^	**47.5**		ug/L	1	3.40	20.0	10	EPA 6010C	07/13/09 10:57	VLO	

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Description:	5503-DISCHARGE	**Lab Sample ID:**	C907713-01	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 11:30	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**2.6**		mg/L	1	2.0	2.0	NE	SM 5210B	07/13/09 14:23	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**35**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.025**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/13/09 09:46	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.031**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/12/09 16:27	PEV	
Nitrite as N [14797-65-0] ^	**0.0059**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/08/09 16:33	AJB	J-01
Phosphorus [7723-14-0] ^	**0.052**	J	mg/L	1	0.050	0.10	NE	EPA 365.4	07/10/09 13:42	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.3**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 13:10	PEV	
Total Suspended Solids [ECL-0169] ^	**21**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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Description: 5503-SW3
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-02
Sampled: 07/07/09 12:45
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 04:35	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 04:35	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 04:35	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 04:35	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 04:35	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 04:35	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 04:35	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 04:35	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 04:35	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 04:35	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 04:35	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 04:35	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 04:35	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 04:35	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 04:35	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 04:35	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 04:35	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 04:35	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 04:35	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 04:35	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 04:35	JKG	

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Description:	5503-SW3	**Lab Sample ID:**	C907713-02	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 12:45	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 04:35	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 04:35*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 04:35*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 04:35*	*JKG*	

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Description: 5503-SW3
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-02
Sampled: 07/07/09 12:45
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:07	VLO	
Arsenic [7440-38-2] ^	**3.73**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Barium [7440-39-3] ^	**22.7**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/13/09 10:59	VLO	
Beryllium [7440-41-7] ^	**0.0937**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/13/09 10:59	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/13/09 10:59	VLO	
Chromium [7440-47-3] ^	**1.51**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Cobalt [7440-48-4] ^	**0.597**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Copper [7440-50-8] ^	**1.28**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Nickel [7440-02-0] ^	**1.35**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/13/09 10:59	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/13/09 10:59	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:07	VLO	
Vanadium [7440-62-2] ^	**3.19**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/13/09 10:59	VLO	
Zinc [7440-66-6] ^	**5.88**	J	ug/L	1	3.40	20.0	10	EPA 6010C	07/13/09 10:59	VLO	

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Description:	5503-SW3	**Lab Sample ID:**	C907713-02	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 12:45	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**4.4**	J	mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.55**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/13/09 09:46	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.59**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/12/09 16:29	PEV	
Nitrite as N [14797-65-0] ^	**0.042**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/08/09 16:34	AJB	J-01
Phosphorus [7723-14-0] ^	**0.16**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/17/09 15:35	AJB	
Sulfate as SO4 [14808-79-8] ^	**5.2**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 13:26	PEV	
Total Suspended Solids [ECL-0169] ^	**12**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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

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Description: 5503-SW6
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-03
Sampled: 07/07/09 11:15
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 05:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 05:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 05:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 05:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 05:04	JKG	
Acetone [67-64-1] ^	**3.6**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 05:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 05:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 05:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 05:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 05:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 05:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 05:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 05:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 05:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 05:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 05:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 05:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 05:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 05:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 05:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 05:04	JKG	

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Description:	5503-SW6	**Lab Sample ID:**	C907713-03	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 11:15	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 05:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 05:04*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 05:04*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*89 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 05:04*	*JKG*	

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Description: 5503-SW6
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-03
Sampled: 07/07/09 11:15
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:11	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Barium [7440-39-3] ^	**55.1**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/13/09 11:01	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/13/09 11:01	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/13/09 11:01	VLO	
Chromium [7440-47-3] ^	**2.37**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Cobalt [7440-48-4] ^	**3.04**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Copper [7440-50-8] ^	**0.933**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Nickel [7440-02-0] ^	**1.33**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/13/09 11:01	VLO	
Selenium [7782-49-2] ^	**3.72**	J	ug/L	1	3.40	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/13/09 11:01	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:11	VLO	
Vanadium [7440-62-2] ^	**3.03**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/13/09 11:01	VLO	
Zinc [7440-66-6] ^	**9.04**	J	ug/L	1	3.40	20.0	10	EPA 6010C	07/13/09 11:01	VLO	

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Description: 5503-SW6
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-03
Sampled: 07/07/09 11:15
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**3.0**		mg/L	1	2.0	2.0	NE	SM 5210B	07/13/09 14:23	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**41**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.025**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/13/09 09:46	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.031**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/12/09 16:31	PEV	
Nitrite as N [14797-65-0] ^	**0.0059**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/08/09 16:34	AJB	J-01
Phosphorus [7723-14-0] ^	**0.11**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/17/09 15:36	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.7**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 13:43	PEV	
Total Suspended Solids [ECL-0169] ^	**30**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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

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Description: 5503-SW7
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-04
Sampled: 07/07/09 10:10
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 05:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 05:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 05:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 05:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 05:33	JKG	
Acetone [67-64-1] ^	**4.4**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 05:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 05:33	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 05:33	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 05:33	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 05:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 05:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 05:33	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 05:33	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 05:33	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 05:33	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 05:33	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Toluene [108-88-3] ^	**1.4**		ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 05:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 05:33	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 05:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 05:33	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 05:33	JKG	

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Description:	5503-SW7	**Lab Sample ID:**	C907713-04	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 10:10	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 05:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 05:33*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 05:33*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 05:33*	*JKG*	

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Description: 5503-SW7
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-04
Sampled: 07/07/09 10:10
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 11:46	VLO	
Arsenic [7440-38-2] ^	**4.41**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Barium [7440-39-3] ^	**65.5**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/13/09 11:04	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/13/09 11:04	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/13/09 11:04	VLO	
Chromium [7440-47-3] ^	**1.36**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Cobalt [7440-48-4] ^	**3.42**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Copper [7440-50-8] ^	**1.39**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Lead [7439-92-1] ^	**1.70**	J	ug/L	1	1.60	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Nickel [7440-02-0] ^	**2.04**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/13/09 11:04	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/13/09 11:04	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 11:46	VLO	
Vanadium [7440-62-2] ^	**1.29**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/13/09 11:04	VLO	
Zinc [7440-66-6] ^	**20.2**		ug/L	1	3.40	20.0	10	EPA 6010C	07/13/09 11:04	VLO	

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Description:	5503-SW7	**Lab Sample ID:**	C907713-04	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 10:10	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**6.2**		mg/L	1	2.0	2.0	NE	SM 5210B	07/13/09 14:23	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**55**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.026**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/13/09 09:46	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.032**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/12/09 16:33	PEV	
Nitrite as N [14797-65-0] ^	**0.0057**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/08/09 16:35	AJB	J-01
Phosphorus [7723-14-0] ^	**0.13**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/17/09 15:37	AJB	
Sulfate as SO4 [14808-79-8] ^	**8.3**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 14:00	PEV	
Total Suspended Solids [ECL-0169] ^	**14**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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Description: 5503-SW14
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-05
Sampled: 07/07/09 14:10
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 09:28	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 09:28	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 09:28	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 09:28	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 09:28	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 09:28	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 09:28	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 09:28	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 09:28	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 09:28	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 09:28	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 09:28	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 09:28	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 09:28	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 09:28	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 09:28	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 09:28	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 09:28	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 09:28	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 09:28	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 09:28	JKG	

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Description:	5503-SW14	**Lab Sample ID:**	C907713-05	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 14:10	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 09:28	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 09:28*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 09:28*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 09:28*	*JKG*	

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Description: 5503-SW14
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-05
Sampled: 07/07/09 14:10
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:15	VLO	
Arsenic [7440-38-2] ^	**3.04**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Barium [7440-39-3] ^	**24.6**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/13/09 11:06	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/13/09 11:06	VLO	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/13/09 11:06	VLO	
Chromium [7440-47-3] ^	**1.25**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Copper [7440-50-8] ^	**0.950**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Nickel [7440-02-0] ^	**0.708**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/13/09 11:06	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/13/09 11:06	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:15	VLO	
Vanadium [7440-62-2] ^	**1.39**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/13/09 11:06	VLO	
Zinc [7440-66-6] ^	**3.77**	J	ug/L	1	3.40	20.0	10	EPA 6010C	07/13/09 11:06	VLO	

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Description: 5503-SW14
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-05
Sampled: 07/07/09 14:10
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**9.1**	J	mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.47**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/13/09 09:46	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.48**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/12/09 16:36	PEV	
Nitrite as N [14797-65-0] ^	**0.0083**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/08/09 16:36	AJB	J-01
Phosphorus [7723-14-0] ^	0.050	U	mg/L	1	0.050	0.10	NE	EPA 365.4	07/17/09 15:39	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.7**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 14:16	PEV	
Total Suspended Solids [ECL-0169] ^	**10**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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Description: 5503-SW15
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-06
Sampled: 07/07/09 14:45
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 09:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 09:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 09:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 09:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 09:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 09:57	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 09:57	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 09:57	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 09:57	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 09:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 09:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 09:57	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 09:57	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 09:57	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 09:57	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 09:57	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 09:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 09:57	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 09:57	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 09:57	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 09:57	JKG	

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Description:	5503-SW15	**Lab Sample ID:**	C907713-06	**Received:**	07/08/09 10:30
Matrix:	Ground Water	**Sampled:**	07/07/09 14:45	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 09:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 09:57*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 09:57*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 09:57*	*JKG*	

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Description: 5503-SW15
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-06
Sampled: 07/07/09 14:45
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:25	VLO	
Arsenic [7440-38-2] ^	**3.76**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Barium [7440-39-3] ^	**27.0**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/13/09 11:08	VLO	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/13/09 11:08	VLO	
Cadmium [7440-43-9] ^	**0.132**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/13/09 11:08	VLO	
Chromium [7440-47-3] ^	**1.41**	J	ug/L	1	0.710	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Cobalt [7440-48-4] ^	0.580	U	ug/L	1	0.580	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Copper [7440-50-8] ^	**1.43**	J	ug/L	1	0.810	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Nickel [7440-02-0] ^	**1.41**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/13/09 11:08	VLO	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/13/09 11:08	VLO	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:25	VLO	
Vanadium [7440-62-2] ^	**1.59**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/13/09 11:08	VLO	
Zinc [7440-66-6] ^	**3.60**	J	ug/L	1	3.40	20.0	10	EPA 6010C	07/13/09 11:08	VLO	

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Description: 5503-SW15
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-06
Sampled: 07/07/09 14:45
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	3.1	U	mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.67**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.68**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/12/09 16:38	PEV	
Nitrite as N [14797-65-0] ^	**0.013**	JB	mg/L	1	0.0056	0.10	1	EPA 353.2	07/08/09 16:38	AJB	J-01
Phosphorus [7723-14-0] ^	**0.12**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/17/09 15:40	AJB	
Sulfate as SO4 [14808-79-8] ^	**4.3**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 14:33	PEV	
Total Suspended Solids [ECL-0169] ^	**26**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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

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Description: 5503-Equipment Blank A
Matrix: Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907713-07
Sampled: 07/07/09 09:10
Sampled By: Julie Petersen

Received: 07/08/09 10:30
Work Order: C907713

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 23:05	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 23:05	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 23:05	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 23:05	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 23:05	JKG	
Acetone [67-64-1] ^	**41**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 23:05	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 23:05	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 23:05	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 23:05	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 23:05	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 23:05	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 23:05	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 23:05	JKG	
Chloroform [67-66-3] ^	**3.0**	J	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 23:05	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 23:05	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 23:05	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 23:05	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 23:05	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 23:05	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 23:05	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 23:05	JKG	

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Description:	5503-Equipment Blank A	**Lab Sample ID:**	C907713-07	**Received:**	07/08/09 10:30
Matrix:	Water	**Sampled:**	07/07/09 09:10	**Work Order:**	C907713
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 23:05	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*9G10015*	*EPA 8260B*	*07/10/09 23:05*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*9G10015*	*EPA 8260B*	*07/10/09 23:05*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G10015*	*EPA 8260B*	*07/10/09 23:05*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G09004 - EPA 5030B_MS

Blank (9G09004-BLK1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 00:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G09004 - EPA 5030B_MS

Blank (9G09004-BLK1) Continued Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 00:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*69-110*			

LCS (9G09004-BS1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 00:40

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		89	75-133			
Benzene	17		1.0	ug/L	20.0		84	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	75-115			

Matrix Spike (9G09004-MS1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 01:09

Source: C907714-04

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	0.24 U	100	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	100	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	104	75-115			

Matrix Spike Dup (9G09004-MSD1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 01:38

Source: C907714-04

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	0.24 U	108	75-133	7	20	
Benzene	21		1.0	ug/L	20.0	0.20 U	104	81-134	7	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.27 U	112	83-117	6	16	
Toluene	22		1.0	ug/L	20.0	0.27 U	109	71-118	9	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	110	75-115	5	18	

Batch 9G10015 - EPA 5030B_MS

Blank (9G10015-BLK1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G10015 - EPA 5030B_MS

Blank (9G10015-BLK1) Continued Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*69-110*			

LCS (9G10015-BS1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:38

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		96	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	19		1.0	ug/L	20.0		93	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G10015 - EPA 5030B_MS

LCS (9G10015-BS1) Continued Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			

Matrix Spike (9G10015-MS1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 17:08

Source: C904906-03

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	0.24 U	114	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	105	81-134			
Chlorobenzene	24		1.0	ug/L	20.0	0.27 U	118	83-117			QM-07
Toluene	22		1.0	ug/L	20.0	0.27 U	112	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.38 U	118	75-115			QM-07

Matrix Spike Dup (9G10015-MSD1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 17:38

Source: C904906-03

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	0.24 U	103	75-133	10	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134	8	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117	10	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118	9	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115	14	18	

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

Batch 9G09018 - EPA 3005A

Blank (9G09018-BLK1) Prepared: 07/09/2009 10:33 Analyzed: 07/13/2009 10:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.0750	U	1.00	ug/L							
Cadmium	0.0870	U	1.00	ug/L							
Chromium	0.710	U	10.0	ug/L							
Cobalt	0.580	U	10.0	ug/L							
Copper	0.810	U	10.0	ug/L							
Lead	1.60	U	10.0	ug/L							
Nickel	0.650	U	50.0	ug/L							
Selenium	3.40	U	10.0	ug/L							
Silver	0.960	U	10.0	ug/L							
Vanadium	0.680	U	10.0	ug/L							
Zinc	3.40	U	20.0	ug/L							

LCS (9G09018-BS1) Prepared: 07/09/2009 10:33 Analyzed: 07/13/2009 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1080		10.0	ug/L	1000		108	85-115			
Barium	1080		10.0	ug/L	1000		108	85-115			

QUALITY CONTROL

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

Batch 9G09018 - EPA 3005A

LCS (9G09018-BS1) Continued Prepared: 07/09/2009 10:33 Analyzed: 07/13/2009 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	545		1.00	ug/L	500		109	85-115			
Cadmium	546		1.00	ug/L	500		109	85-115			
Chromium	1100		10.0	ug/L	1000		110	85-115			
Cobalt	1070		10.0	ug/L	1000		107	85-115			
Copper	542		10.0	ug/L	500		108	85-115			
Lead	1090		10.0	ug/L	1000		109	85-115			
Nickel	1090		50.0	ug/L	1000		109	85-115			
Selenium	1110		10.0	ug/L	1000		111	85-115			
Silver	111		10.0	ug/L	100		111	85-115			
Vanadium	554		10.0	ug/L	500		111	85-115			
Zinc	1100		20.0	ug/L	1000		110	85-115			

Matrix Spike (9G09018-MS1) Prepared: 07/09/2009 10:33 Analyzed: 07/13/2009 10:28

Source: C907714-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1030		10.0	ug/L	1000	4.33	103	80-120			
Barium	1200		10.0	ug/L	1000	195	101	80-120			
Beryllium	519		1.00	ug/L	500	0.138	104	80-120			
Cadmium	513		1.00	ug/L	500	0.289	103	80-120			
Chromium	1040		10.0	ug/L	1000	2.95	103	80-120			
Cobalt	1030		10.0	ug/L	1000	11.5	102	80-120			
Copper	516		10.0	ug/L	500	4.40	102	80-120			
Lead	1020		10.0	ug/L	1000	4.24	102	80-120			
Nickel	1020		50.0	ug/L	1000	3.13	102	80-120			
Selenium	1030		10.0	ug/L	1000	3.40 U	103	80-120			
Silver	105		10.0	ug/L	100	0.960 U	105	80-120			
Vanadium	529		10.0	ug/L	500	3.99	105	80-120			
Zinc	1070		20.0	ug/L	1000	43.8	103	80-120			

Matrix Spike Dup (9G09018-MSD1) Prepared: 07/09/2009 10:33 Analyzed: 07/13/2009 10:31

Source: C907714-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1050		10.0	ug/L	1000	4.33	104	80-120	1	30	
Barium	1220		10.0	ug/L	1000	195	103	80-120	2	30	
Beryllium	529		1.00	ug/L	500	0.138	106	80-120	2	30	
Cadmium	518		1.00	ug/L	500	0.289	103	80-120	0.8	30	
Chromium	1050		10.0	ug/L	1000	2.95	104	80-120	1	30	
Cobalt	1040		10.0	ug/L	1000	11.5	103	80-120	1	30	
Copper	524		10.0	ug/L	500	4.40	104	80-120	1	30	
Lead	1040		10.0	ug/L	1000	4.24	103	80-120	1	30	
Nickel	1040		50.0	ug/L	1000	3.13	103	80-120	1	30	
Selenium	1040		10.0	ug/L	1000	3.40 U	104	80-120	0.6	30	
Silver	107		10.0	ug/L	100	0.960 U	107	80-120	1	30	
Vanadium	535		10.0	ug/L	500	3.99	106	80-120	1	30	
Zinc	1080		20.0	ug/L	1000	43.8	104	80-120	1	30	

QUALITY CONTROL

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

Batch 9G09018 - EPA 3005A

Post Spike (9G09018-PS1) Prepared: 07/09/2009 10:33 Analyzed: 07/13/2009 10:33

Source: C907714-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.08		0.0100	mg/L	1.00	0.00433	107	80-120			
Barium	1.26		0.0100	mg/L	1.00	0.195	106	80-120			
Beryllium	0.543		0.00100	mg/L	0.500	0.000138	109	80-120			
Cadmium	0.539		0.00100	mg/L	0.500	0.000289	108	80-120			
Chromium	1.09		0.0100	mg/L	1.00	0.00295	109	80-120			
Cobalt	1.08		0.0100	mg/L	1.00	0.0115	107	80-120			
Copper	0.540		0.0100	mg/L	0.500	0.00440	107	80-120			
Lead	1.07		0.0100	mg/L	1.00	0.00424	106	80-120			
Nickel	1.08		0.0500	mg/L	1.00	0.00313	107	80-120			
Selenium	1.08		0.0100	mg/L	1.00	-0.000369	108	80-120			
Silver	0.103		0.0100	mg/L	0.100	0.000654	102	80-120			
Vanadium	0.556		0.0100	mg/L	0.500	0.00399	110	80-120			
Zinc	1.13		0.0200	mg/L	1.00	0.0438	108	80-120			

Batch 9G09020 - EPA 3005A

Blank (9G09020-BLK1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.680	U	5.00	ug/L							
Thallium	0.0360	U	1.00	ug/L							

LCS (9G09020-BS1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	256		5.00	ug/L	250		103	80-120			
Thallium	254		1.00	ug/L	250		101	80-120			

Matrix Spike (9G09020-MS1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:50

Source: C907713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	269		5.00	ug/L	250	0.680 U	108	75-125			
Thallium	261		1.00	ug/L	250	0.0360 U	104	75-125			

Matrix Spike Dup (9G09020-MSD1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:53

Source: C907713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	259		5.00	ug/L	250	0.680 U	104	75-125	4	20	
Thallium	250		1.00	ug/L	250	0.0360 U	100	75-125	4	20	

Post Spike (9G09020-PS1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:57

Source: C907713-04

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 9G09020 - EPA 3005A

Post Spike (9G09020-PS1) Continued Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:57

Source: C907713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.1		0.500	ug/L	25.0	0.0310	84	80-120			
Thallium	20.4		0.100	ug/L	25.0	-0.129	82	80-120			

Classical Chemistry Parameters - Quality Control

Batch 9G08008 - NO PREP

Blank (9G08008-BLK1) Prepared: 07/08/2009 12:40 Analyzed: 07/13/2009 14:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (9G08008-BS1) Prepared: 07/08/2009 12:40 Analyzed: 07/13/2009 14:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2.0	mg/L	198		102	85-115			

Duplicate (9G08008-DUP1) Prepared: 07/08/2009 12:40 Analyzed: 07/13/2009 14:23

Source: C907552-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	3.9		2.0	mg/L		4.1			5	25	

Batch 9G08023 - NO PREP

Blank (9G08023-BLK1) Prepared: 07/08/2009 14:34 Analyzed: 07/08/2009 16:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**0.012**	**J**	0.10	mg/L							

LCS (9G08023-BS1) Prepared: 07/08/2009 14:34 Analyzed: 07/08/2009 16:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.95	B	0.10	mg/L	1.00		95	80-120			

Matrix Spike (9G08023-MS1) Prepared: 07/08/2009 14:34 Analyzed: 07/08/2009 16:19

Source: C907552-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.051	99	80-120			

Matrix Spike Dup (9G08023-MSD1) Prepared: 07/08/2009 14:34 Analyzed: 07/08/2009 16:20

Source: C907552-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1	B	0.10	mg/L	1.00	0.051	103	80-120	3	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G08023 - NO PREP

Batch 9G09011 - Same

Blank (9G09011-BLK1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (9G09011-BS1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		101	80-120			

Matrix Spike (9G09011-MS1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:03

Source: C907332-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60	0.050 U	104	80-120			

Matrix Spike Dup (9G09011-MSD1) Prepared: 07/09/2009 11:57 Analyzed: 07/10/2009 13:05

Source: C907332-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60	0.050 U	104	80-120	0.07	25	

Batch 9G09015 - NO PREP

Blank (9G09015-BLK1) Prepared: 07/09/2009 11:09 Analyzed: 07/14/2009 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (9G09015-BS1) Prepared: 07/09/2009 11:09 Analyzed: 07/14/2009 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		97	85-115			

Duplicate (9G09015-DUP1) Prepared: 07/09/2009 11:09 Analyzed: 07/14/2009 13:45

Source: C907645-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	3.0		2.0	mg/L		3.0			2	25	

Batch 9G10026 - NO PREP

Blank (9G10026-BLK1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.078	U	5.0	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G10026 - NO PREP

LCS (9G10026-BS1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		97	90-110			

Matrix Spike (9G10026-MS1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:36

Source: C907713-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	50		5.0	mg/L	50.0	2.3	96	80-120			

Matrix Spike Dup (9G10026-MSD1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:53

Source: C907713-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	51		5.0	mg/L	50.0	2.3	98	80-120	2	15	

Batch 9G12005 - NO PREP

Blank (9G12005-BLK1) Prepared: 07/12/2009 13:50 Analyzed: 07/12/2009 15:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.021	U	0.10	mg/L							

LCS (9G12005-BS1) Prepared: 07/12/2009 13:50 Analyzed: 07/12/2009 15:59

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		98	80-120			

Matrix Spike (9G12005-MS1) Prepared: 07/12/2009 13:50 Analyzed: 07/12/2009 16:03

Source: C907960-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.28	0.040	101	80-120			

Matrix Spike Dup (9G12005-MSD1) Prepared: 07/12/2009 13:50 Analyzed: 07/12/2009 16:05

Source: C907960-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.28	0.040	110	80-120	8	25	

Batch 9G13031 - NO PREP

Blank (9G13031-BLK1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9G13031-BS1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G13031 - NO PREP

LCS (9G13031-BS1) Continued Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500		99	90-110			

Matrix Spike (9G13031-MS1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Source: C907508-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	39	100	90-110			

Matrix Spike Dup (9G13031-MSD1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Source: C907508-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	39	100	90-110	0	10	

Batch 9G14003 - NO PREP

Blank (9G14003-BLK1) Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (9G14003-BS1) Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	84		1.0	mg/L	80.0		105	82-119			

Duplicate (9G14003-DUP1) Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

Source: C907926-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	18		1.0	mg/L		17			5	25	

Batch 9G15017 - Same

Blank (9G15017-BLK1) Prepared: 07/15/2009 13:32 Analyzed: 07/17/2009 14:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (9G15017-BS1) Prepared: 07/15/2009 13:32 Analyzed: 07/17/2009 15:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		101	80-120			

Matrix Spike (9G15017-MS1) Prepared: 07/15/2009 13:32 Analyzed: 07/17/2009 15:02

Source: C908389-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G15017 - Same

Matrix Spike (9G15017-MS1) Continued Prepared: 07/15/2009 13:32 Analyzed: 07/17/2009 15:02

Source: C908389-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.5		0.10	mg/L	1.60	0.98	96	80-120			

Matrix Spike Dup (9G15017-MSD1) Prepared: 07/15/2009 13:32 Analyzed: 07/17/2009 15:04

Source: C908389-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	2.5		0.10	mg/L	1.60	0.98	94	80-120	2	25	

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 859-6945

4810 Executive Park Court, Suite 211
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

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~
Tel: (704) 523-4726 Fax: (704) 525-4953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due 7/7/9

Lab Workorder: C907713

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	8260B Appendix 1	Ag, As, Ba, Be, Cd, Ca, Cr, Co, Ni, Pb, Sb, Se, Tl, V, Zn	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	Nitrite as N 353.2	NOX 353.2,P	Sulfate 300	TSS SM2540D		Sample Comments
	DISCHARGE	7/7/09	1130	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-3	7/7/09	1245	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-6	7/7/09	1115	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-7	7/7/09	1010	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-8				GW	8	X	X	X	X	X	X	X	X	X		
	SW-9				GW	8	X	X	X	X	X	X	X	X	X		
	SW-10				GW	8	X	X	X	X	X	X	X	X	X		
	SW-11				GW	8	X	X	X	X	X	X	X	X	X		
	SW-12				GW	8	X	X	X	X	X	X	X	X	X		
	SW-13				GW	8	X	X	X	X	X	X	X	X	X		
	SW-14	7/7/09	1410	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-15	7/7/09	1445		GW	8	X	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
JK	7.2.9	[signature]	7/7/09 1700	Briana Gregory	7-8-09 10:30
Comments: C-286 2.9°C		Relinquished By		Received By	
		Relinquished By		Received By	

Cooler #'s & Temps on Receipt: C-477 C-478 C-576 3.3°C BLUE

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW Groundwater SO Soil SE Sediment SW Surface Water WW Wastewater A Air O-Other (detail in comments)

Preservation: 1 Ice 2 HCl 3 HNO3 4 H2SO4 5 NaOH 6 ZnAc 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

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Centra Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 2 of 2

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~
Tel: (704) 523-4726 Fax: (704) 525-3953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due 7/7/9

Lab Workorder: C907713

Preservation (See Codes) (Combine as necessary)

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/Ca/Cr/Cu/Ni/Pb/Sb/Se/Tl/V/Zn	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	Nitrite as N 353.2	NOX 353.2,P	Sulfate 300	TSS SM2540D		Sample Comments
	SW-16				GW	8	X	X	X	X	X	X	X	X	X		
	SW-17				GW	8	X	X	X	X	X	X	X	X	X		
	SW-				GW	8	X	X	X	X	X	X	X	X	X		
	SW-				GW	8	X	X	X	X	X	X	X	X	X		
	SW-				GW	8	X	X	X	X	X	X	X	X	X		
	Equipment Blank A	7/7/09	910	G	WA	3	X										
	Field Blank				WA	3	X										
	Trip Blank				WA	2	X										

<- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 7-2-09	Relinquished By: [signature]	Date/Time: 7/7/09 1700	Received By: Briana Gregory	Date/Time: 7-8-09 10:30
Comments: C-286 2.9°C		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-477 C-483 C-576 3.3°C Blue		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 ND-NaOH O-Other (detail in comments)

Note: All services submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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

Thursday, July 23, 2009

S&ME, Inc. (SM002)

Attn: Julie Petersen

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-09-006, Project Name/Desc: Lincoln County Leachate Assessment
ENCO Workorder: C907933

Dear Julie Petersen,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 9, 2009.

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 61.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Soil-9 1ft **Lab ID:** C907933-01 **Sampled:** 07/08/09 13:50 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/10/09	00:00	08/26/09	07/09/09	11:02	7/9/2009 16:57
EPA 353.2	08/05/09			07/09/09	11:02	7/12/2009 17:18
EPA 353.2	08/05/09			07/09/09	11:02	7/14/2009 08:50
EPA 6010C	01/04/10			07/10/09	10:49	7/13/2009 12:23
EPA 8260B	07/22/09			07/17/09	09:03	7/17/2009 16:36
EPA 9045D	07/10/09	10:54		07/10/09	10:40	7/10/2009 15:30
EPA 9056A	08/05/09			07/09/09	11:02	7/10/2009 21:13

Client ID: Soil-9 1ft **Lab ID:** C907933-01RE1 **Sampled:** 07/08/09 13:50 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09	09:12	7/15/2009 07:13

Client ID: Soil-9 2ft **Lab ID:** C907933-02 **Sampled:** 07/08/09 14:00 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/10/09	00:00	08/26/09	07/09/09	11:02	7/9/2009 16:58
EPA 353.2	08/05/09			07/09/09	11:02	7/12/2009 17:19
EPA 353.2	08/05/09			07/09/09	11:02	7/14/2009 08:50
EPA 6010C	01/04/10			07/10/09	10:49	7/13/2009 12:25
EPA 8260B	07/22/09			07/17/09	09:03	7/17/2009 17:08
EPA 9045D	07/10/09	10:54		07/10/09	10:40	7/10/2009 15:30
EPA 9056A	08/05/09			07/09/09	11:02	7/10/2009 21:30

Client ID: Soil-9 2ft **Lab ID:** C907933-02RE1 **Sampled:** 07/08/09 14:00 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09	09:12	7/15/2009 07:15

Client ID: Soil-9 3ft **Lab ID:** C907933-03 **Sampled:** 07/08/09 14:05 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/10/09	00:00	08/26/09	07/09/09	11:02	7/9/2009 17:00
EPA 353.2	08/05/09			07/09/09	11:02	7/12/2009 17:20
EPA 353.2	08/05/09			07/09/09	11:02	7/14/2009 08:50
EPA 365.4	08/05/09			07/13/09	09:12	7/14/2009 17:36
EPA 6010C	01/04/10			07/10/09	10:49	7/13/2009 12:28
EPA 8260B	07/22/09			07/17/09	09:03	7/17/2009 18:44
EPA 9045D	07/10/09	11:01		07/10/09	10:47	7/10/2009 15:30
EPA 9056A	08/05/09			07/09/09	11:02	7/10/2009 21:46

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Client ID:	Soil-13	Lab ID:	C907933-04	Sampled:	07/08/09 11:30	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 353.2	07/10/09 00:00 08/26/09	07/09/09 11:02	7/9/2009 17:01
EPA 353.2	08/05/09	07/09/09 11:02	7/12/2009 17:21
EPA 353.2	08/05/09	07/09/09 11:02	7/14/2009 08:50
EPA 6010C	01/04/10	07/10/09 10:49	7/13/2009 12:30
EPA 8260B	07/22/09	07/17/09 09:03	7/17/2009 19:16
EPA 9045D	07/10/09 11:01	07/10/09 10:47	7/10/2009 15:30
EPA 9056A	08/05/09	07/09/09 11:02	7/10/2009 22:03

Client ID:	Soil-13	Lab ID:	C907933-04RE1	Sampled:	07/08/09 11:30	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09 09:12	7/15/2009 07:16

Client ID:	Soil-14	Lab ID:	C907933-05	Sampled:	07/08/09 09:55	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 353.2	07/10/09 00:00 08/26/09	07/09/09 11:02	7/9/2009 17:02
EPA 353.2	08/05/09	07/09/09 11:02	7/12/2009 17:22
EPA 353.2	08/05/09	07/09/09 11:02	7/14/2009 08:50
EPA 6010C	01/04/10	07/10/09 10:49	7/13/2009 12:32
EPA 8260B	07/22/09	07/17/09 09:03	7/17/2009 19:47
EPA 9045D	07/10/09 11:01	07/10/09 10:47	7/10/2009 15:30
EPA 9056A	08/05/09	07/09/09 11:02	7/10/2009 22:19

Client ID:	Soil-14	Lab ID:	C907933-05RE1	Sampled:	07/08/09 09:55	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09 09:12	7/15/2009 07:17

Client ID:	Soil-17	Lab ID:	C907933-06	Sampled:	07/08/09 10:45	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 353.2	07/10/09 00:00 08/26/09	07/09/09 11:02	7/9/2009 17:03
EPA 353.2	08/05/09	07/09/09 11:02	7/12/2009 17:24
EPA 353.2	08/05/09	07/09/09 11:02	7/14/2009 08:50
EPA 6010C	01/04/10	07/10/09 10:49	7/13/2009 12:35
EPA 8260B	07/22/09	07/17/09 09:03	7/17/2009 20:19
EPA 9045D	07/10/09 11:01	07/10/09 10:47	7/10/2009 15:30
EPA 9056A	08/05/09	07/09/09 11:02	7/10/2009 22:36

Client ID:	Soil-17	Lab ID:	C907933-06RE1	Sampled:	07/08/09 10:45	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09 09:12	7/15/2009 07:19

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Client ID:	Soil-13D	Lab ID:	C907933-07	Sampled:	07/08/09 11:40	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/10/09	00:00	08/26/09	07/09/09	11:02	7/9/2009 17:05
EPA 353.2	08/05/09			07/09/09	11:02	7/12/2009 17:25
EPA 353.2	08/05/09			07/09/09	11:02	7/14/2009 08:50
EPA 6010C	01/04/10			07/10/09	10:49	7/13/2009 12:37
EPA 8260B	07/22/09			07/17/09	09:03	7/17/2009 20:50
EPA 9045D	07/10/09	11:01		07/10/09	10:47	7/10/2009 15:30
EPA 9056A	08/05/09			07/09/09	11:02	7/10/2009 22:53

Client ID:	Soil-13D	Lab ID:	C907933-07RE1	Sampled:	07/08/09 11:40	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09	09:12	7/15/2009 07:20

Client ID:	Soil-9 1ft D	Lab ID:	C907933-08	Sampled:	07/08/09 13:55	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	07/10/09	00:00	08/26/09	07/09/09	11:02	7/9/2009 17:06
EPA 353.2	08/05/09			07/09/09	11:02	7/12/2009 17:26
EPA 353.2	08/05/09			07/09/09	11:02	7/14/2009 08:50
EPA 6010C	01/04/10			07/10/09	10:49	7/13/2009 12:39
EPA 8260B	07/22/09			07/17/09	09:03	7/17/2009 21:22
EPA 9045D	07/10/09	11:07		07/10/09	10:53	7/10/2009 15:30
EPA 9056A	08/05/09			07/09/09	11:02	7/10/2009 23:09

Client ID:	Soil-9 1ft D	Lab ID:	C907933-08RE1	Sampled:	07/08/09 13:55	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 365.4	08/05/09	07/13/09	09:12	7/15/2009 07:21

Client ID:	Equipment Blank B	Lab ID:	C907933-09RE1	Sampled:	07/08/09 13:40	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/22/09	07/18/09	12:41	7/21/2009 16:38

Client ID:	Trip Blank	Lab ID:	C907933-10	Sampled:	07/08/09 09:55	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/22/09	07/18/09	12:41	7/18/2009 22:54

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SAMPLE DETECTION SUMMARY

Client ID: Soil-9 1ft			Lab ID: C907933-01				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.009		0.001	0.004	mg/kg dry	EPA 8260B	
Antimony - Total	1.04	J	0.314	1.21	mg/kg dry	EPA 6010C	
Arsenic - Total	11.7		0.290	0.604	mg/kg dry	EPA 6010C	
Barium - Total	54.3		0.101	0.604	mg/kg dry	EPA 6010C	
Beryllium - Total	1.67		0.00399	0.0604	mg/kg dry	EPA 6010C	
Cadmium - Total	0.222		0.00785	0.0604	mg/kg dry	EPA 6010C	
Chromium - Total	23.1	B	0.0387	0.604	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	31.6		0.0193	0.604	mg/kg dry	EPA 6010C	
Copper - Total	25.9	B	0.0713	0.604	mg/kg dry	EPA 6010C	QB-01
Lead - Total	22.1		0.0833	0.604	mg/kg dry	EPA 6010C	
m,p-Xylenes	0.0004	J	0.0003	0.002	mg/kg dry	EPA 8260B	
Nickel - Total	23.9		0.101	3.02	mg/kg dry	EPA 6010C	
pH	7.4		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	32	J	0.94	60	mg/kg dry	EPA 9056A	
Toluene	0.0005	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
Vanadium - Total	53.1		0.0399	0.604	mg/kg dry	EPA 6010C	
Zinc - Total	53.7		2.05	3.02	mg/kg dry	EPA 6010C	

Client ID: Soil-9 1ft			Lab ID: C907933-01RE1				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Phosphorus	510	D	76	97	mg/kg dry	EPA 365.4	

Client ID: Soil-9 2ft			Lab ID: C907933-02				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.007		0.001	0.005	mg/kg dry	EPA 8260B	
Antimony - Total	0.813	J	0.353	1.36	mg/kg dry	EPA 6010C	
Arsenic - Total	10.3		0.326	0.679	mg/kg dry	EPA 6010C	
Barium - Total	50.5		0.114	0.679	mg/kg dry	EPA 6010C	
Beryllium - Total	1.77		0.00448	0.0679	mg/kg dry	EPA 6010C	
Cadmium - Total	0.191		0.00883	0.0679	mg/kg dry	EPA 6010C	
Chromium - Total	25.4	B	0.0435	0.679	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	18.4		0.0217	0.679	mg/kg dry	EPA 6010C	
Copper - Total	27.6	B	0.0802	0.679	mg/kg dry	EPA 6010C	QB-01
Lead - Total	20.7		0.0938	0.679	mg/kg dry	EPA 6010C	
m,p-Xylenes	0.0006	J	0.0003	0.002	mg/kg dry	EPA 8260B	
Nickel - Total	18.1		0.114	3.40	mg/kg dry	EPA 6010C	
pH	7.2		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	23	J	1.1	68	mg/kg dry	EPA 9056A	
Tetrachloroethene	0.011		0.0003	0.0009	mg/kg dry	EPA 8260B	
Toluene	0.0006	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
Vanadium - Total	53.7		0.0448	0.679	mg/kg dry	EPA 6010C	
Xylenes (Total)	0.0006	J	0.0005	0.0009	mg/kg dry	EPA 8260B	
Zinc - Total	54.4		2.31	3.40	mg/kg dry	EPA 6010C	

Client ID: Soil-9 2ft			Lab ID: C907933-02RE1				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Phosphorus	410	D	72	91	mg/kg dry	EPA 365.4	

Client ID: Soil-9 3ft			Lab ID: C907933-03				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
2-Butanone	0.013		0.0006	0.004	mg/kg dry	EPA 8260B	
Acetone	0.065		0.0009	0.004	mg/kg dry	EPA 8260B	
Arsenic - Total	2.96		0.278	0.579	mg/kg dry	EPA 6010C	
Barium - Total	28.5		0.0973	0.579	mg/kg dry	EPA 6010C	
Beryllium - Total	0.369		0.00382	0.0579	mg/kg dry	EPA 6010C	
Cadmium - Total	0.0420	J	0.00753	0.0579	mg/kg dry	EPA 6010C	
Carbon disulfide	0.0005	J	0.0003	0.004	mg/kg dry	EPA 8260B	
Chromium - Total	21.5	B	0.0371	0.579	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	7.07		0.0185	0.579	mg/kg dry	EPA 6010C	
Copper - Total	8.12	B	0.0683	0.579	mg/kg dry	EPA 6010C	QB-01
Lead - Total	15.5		0.0799	0.579	mg/kg dry	EPA 6010C	
Nickel - Total	4.73		0.0973	2.90	mg/kg dry	EPA 6010C	
Nitrite as N	2.5		0.065	1.2	mg/kg dry	EPA 353.2	
pH	5.9		1.0	1.0	pH Units	EPA 9045D	Q
Phosphorus	260		7.3	9.3	mg/kg dry	EPA 365.4	
Sulfate as SO4	33	J	0.90	58	mg/kg dry	EPA 9056A	
Toluene	0.0003	J	0.0002	0.0008	mg/kg dry	EPA 8260B	
Vanadium - Total	40.0		0.0382	0.579	mg/kg dry	EPA 6010C	
Zinc - Total	15.1		1.97	2.90	mg/kg dry	EPA 6010C	

Client ID: Soil-13			Lab ID: C907933-04				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.10		0.002	0.008	mg/kg dry	EPA 8260B	
Antimony - Total	4.06		0.477	1.83	mg/kg dry	EPA 6010C	
Arsenic - Total	5.07		0.440	0.917	mg/kg dry	EPA 6010C	
Barium - Total	170		0.154	0.917	mg/kg dry	EPA 6010C	
Beryllium - Total	1.71		0.00605	0.0917	mg/kg dry	EPA 6010C	
Cadmium - Total	0.492		0.0119	0.0917	mg/kg dry	EPA 6010C	
Chromium - Total	73.0	B	0.0587	0.917	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	11.8		0.0293	0.917	mg/kg dry	EPA 6010C	
Copper - Total	22.5	B	0.108	0.917	mg/kg dry	EPA 6010C	QB-01
Lead - Total	26.3		0.127	0.917	mg/kg dry	EPA 6010C	
Nickel - Total	23.6		0.154	4.59	mg/kg dry	EPA 6010C	
Nitrite as N	0.63	J	0.092	1.7	mg/kg dry	EPA 353.2	
pH	5.5		1.0	1.0	pH Units	EPA 9045D	Q
Silver - Total	0.144	J	0.0990	0.917	mg/kg dry	EPA 6010C	
Sulfate as SO4	45	J	1.3	83	mg/kg dry	EPA 9056A	
Tetrachloroethene	0.013		0.0005	0.002	mg/kg dry	EPA 8260B	
Vanadium - Total	88.2		0.0605	0.917	mg/kg dry	EPA 6010C	
Zinc - Total	76.4		3.12	4.59	mg/kg dry	EPA 6010C	

Client ID: Soil-13			Lab ID: C907933-04RE1				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Phosphorus	900	D	95	120	mg/kg dry	EPA 365.4	

Client ID: Soil-14			Lab ID: C907933-05				
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
2-Butanone	0.022		0.0008	0.005	mg/kg dry	EPA 8260B	
Acetone	0.13		0.001	0.005	mg/kg dry	EPA 8260B	
Antimony - Total	4.06		0.413	1.59	mg/kg dry	EPA 6010C	
Arsenic - Total	4.84		0.381	0.794	mg/kg dry	EPA 6010C	

Client ID: Soil-14 **Lab ID:** C907933-05

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	127		0.133	0.794	mg/kg dry	EPA 6010C	
Beryllium - Total	1.50		0.00524	0.0794	mg/kg dry	EPA 6010C	
Cadmium - Total	0.262		0.0103	0.0794	mg/kg dry	EPA 6010C	
Carbon disulfide	0.0006	J	0.0004	0.005	mg/kg dry	EPA 8260B	
Chromium - Total	67.3	B	0.0508	0.794	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	10.2		0.0254	0.794	mg/kg dry	EPA 6010C	
Copper - Total	20.8	B	0.0937	0.794	mg/kg dry	EPA 6010C	QB-01
Lead - Total	25.0		0.110	0.794	mg/kg dry	EPA 6010C	
Nickel - Total	19.6		0.133	3.97	mg/kg dry	EPA 6010C	
Nitrate as N	0.27	J	0.089	1.6	mg/kg dry	EPA 353.2	
Nitrate/Nitrite as N	0.54	J	0.33	1.6	mg/kg dry	EPA 353.2	
Nitrite as N	0.27	J	0.089	1.6	mg/kg dry	EPA 353.2	
pH	6.0		1.0	1.0	pH Units	EPA 9045D	Q
Silver - Total	0.0976	J	0.0857	0.794	mg/kg dry	EPA 6010C	
Sulfate as SO4	42	J	1.2	79	mg/kg dry	EPA 9056A	
Toluene	0.0008	J	0.0002	0.001	mg/kg dry	EPA 8260B	
Vanadium - Total	83.0		0.0524	0.794	mg/kg dry	EPA 6010C	
Zinc - Total	55.6		2.70	3.97	mg/kg dry	EPA 6010C	

Client ID: Soil-14 **Lab ID:** C907933-05RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	700	D	100	130	mg/kg dry	EPA 365.4	

Client ID: Soil-17 **Lab ID:** C907933-06

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.20		0.002	0.010	mg/kg dry	EPA 8260B	
2-Hexanone	0.019		0.002	0.010	mg/kg dry	EPA 8260B	
Acetone	0.42		0.002	0.010	mg/kg dry	EPA 8260B	
Antimony - Total	1.81	J	0.521	2.00	mg/kg dry	EPA 6010C	
Arsenic - Total	4.42		0.481	1.00	mg/kg dry	EPA 6010C	
Barium - Total	99.3		0.168	1.00	mg/kg dry	EPA 6010C	
Beryllium - Total	1.12		0.00661	0.100	mg/kg dry	EPA 6010C	
Cadmium - Total	0.150		0.0130	0.100	mg/kg dry	EPA 6010C	
Carbon disulfide	0.002	J	0.0008	0.010	mg/kg dry	EPA 8260B	
Chromium - Total	52.6	B	0.0641	1.00	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	6.69		0.0320	1.00	mg/kg dry	EPA 6010C	
Copper - Total	19.0	B	0.118	1.00	mg/kg dry	EPA 6010C	QB-01
Lead - Total	23.9		0.138	1.00	mg/kg dry	EPA 6010C	
Nickel - Total	13.7		0.168	5.01	mg/kg dry	EPA 6010C	
pH	6.2		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	38	J	1.4	89	mg/kg dry	EPA 9056A	
Toluene	0.003		0.0004	0.002	mg/kg dry	EPA 8260B	
Vanadium - Total	77.8		0.0661	1.00	mg/kg dry	EPA 6010C	
Zinc - Total	103		3.40	5.01	mg/kg dry	EPA 6010C	

Client ID: Soil-17 **Lab ID:** C907933-06RE1

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Phosphorus	610	D	79	100	mg/kg dry	EPA 365.4	

Client ID: Soil-13D **Lab ID:** C907933-07

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes

Client ID:	Soil-13D		Lab ID:	C907933-07			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Acetone	0.15		0.002	0.008	mg/kg dry	EPA 8260B	
Antimony - Total	4.25		0.431	1.66	mg/kg dry	EPA 6010C	
Arsenic - Total	5.03		0.398	0.829	mg/kg dry	EPA 6010C	
Barium - Total	153		0.139	0.829	mg/kg dry	EPA 6010C	
Beryllium - Total	1.71		0.00547	0.0829	mg/kg dry	EPA 6010C	
Cadmium - Total	0.522		0.0108	0.0829	mg/kg dry	EPA 6010C	
Chromium - Total	75.3	B	0.0530	0.829	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	11.6		0.0265	0.829	mg/kg dry	EPA 6010C	
Copper - Total	23.1	B	0.0978	0.829	mg/kg dry	EPA 6010C	QB-01
Lead - Total	26.9		0.114	0.829	mg/kg dry	EPA 6010C	
Nickel - Total	23.4		0.139	4.14	mg/kg dry	EPA 6010C	
Nitrate as N	0.25	J	0.093	1.7	mg/kg dry	EPA 353.2	
Nitrate/Nitrite as N	1.1	J	0.35	1.7	mg/kg dry	EPA 353.2	
Nitrite as N	0.88	J	0.093	1.7	mg/kg dry	EPA 353.2	
pH	5.7		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	46	J	1.3	83	mg/kg dry	EPA 9056A	
Vanadium - Total	90.2		0.0547	0.829	mg/kg dry	EPA 6010C	
Zinc - Total	71.7		2.82	4.14	mg/kg dry	EPA 6010C	

Client ID:	Soil-13D		Lab ID:	C907933-07RE1			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Phosphorus	830	D	94	120	mg/kg dry	EPA 365.4	

Client ID:	Soil-9 1ft D		Lab ID:	C907933-08			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Antimony - Total	1.73		0.320	1.23	mg/kg dry	EPA 6010C	
Arsenic - Total	10.8		0.295	0.615	mg/kg dry	EPA 6010C	
Barium - Total	75.4		0.103	0.615	mg/kg dry	EPA 6010C	
Beryllium - Total	1.92		0.00406	0.0615	mg/kg dry	EPA 6010C	
Cadmium - Total	0.221		0.00800	0.0615	mg/kg dry	EPA 6010C	
Chromium - Total	32.9	B	0.0394	0.615	mg/kg dry	EPA 6010C	QB-01
Cobalt - Total	21.2		0.0197	0.615	mg/kg dry	EPA 6010C	
Copper - Total	25.6	B	0.0726	0.615	mg/kg dry	EPA 6010C	QB-01
Lead - Total	21.2		0.0849	0.615	mg/kg dry	EPA 6010C	
Nickel - Total	23.5		0.103	3.08	mg/kg dry	EPA 6010C	
pH	7.6		1.0	1.0	pH Units	EPA 9045D	Q
Sulfate as SO4	30	J	0.96	62	mg/kg dry	EPA 9056A	
Vanadium - Total	56.8		0.0406	0.615	mg/kg dry	EPA 6010C	
Zinc - Total	56.1		2.09	3.08	mg/kg dry	EPA 6010C	

Client ID:	Soil-9 1ft D		Lab ID:	C907933-08RE1			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
Phosphorus	570	D	68	86	mg/kg dry	EPA 365.4	

Client ID:	Equipment Blank B		Lab ID:	C907933-09RE1			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**	**Notes**
2-Butanone	2.7	J	1.0	5.0	ug/L	EPA 8260B	
Acetone	59		1.5	5.0	ug/L	EPA 8260B	
Chloroform	4.0		0.20	1.0	ug/L	EPA 8260B	
Styrene	0.52	J	0.26	1.0	ug/L	EPA 8260B	
Toluene	0.76	J	0.27	1.0	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description:	Soil-9 1ft	**Lab Sample ID:**	C907933-01	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:50	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	82.8

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
2-Butanone [78-93-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
2-Hexanone [591-78-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Acetone [67-64-1] ^	**0.009**		mg/kg dry	1	0.001	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Acrylonitrile [107-13-1] ^	0.001	U	mg/kg dry	1	0.001	0.009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Benzene [71-43-2] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Carbon disulfide [75-15-0] ^	0.0003	U	mg/kg dry	1	0.0003	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Chlorobenzene [108-90-7] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Chloroform [67-66-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Iodomethane [74-88-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.0004**	J	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Methylene chloride [75-09-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Styrene [100-42-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Tetrachloroethene [127-18-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Toluene [108-88-3] ^	**0.0005**	J	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Trichloroethene [79-01-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Vinyl acetate [108-05-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G09009	EPA 8260B	07/17/09 16:36	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	

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Description:	Soil-9 1ft	**Lab Sample ID:**	C907933-01	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:50	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	82.8

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0009	9G09009	EPA 8260B	07/17/09 16:36	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*97 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 16:36*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 16:36*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 16:36*	*JKG*	

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Description:	Soil-9 1ft	**Lab Sample ID:**	C907933-01	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:50	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	82.8

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.04**	J	mg/kg dry	1	0.314	1.21	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Arsenic [7440-38-2] ^	**11.7**		mg/kg dry	1	0.290	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Barium [7440-39-3] ^	**54.3**		mg/kg dry	1	0.101	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Beryllium [7440-41-7] ^	**1.67**		mg/kg dry	1	0.00399	0.0604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Cadmium [7440-43-9] ^	**0.222**		mg/kg dry	1	0.00785	0.0604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Chromium [7440-47-3] ^	**23.1**	B	mg/kg dry	1	0.0387	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	QB-01
Cobalt [7440-48-4] ^	**31.6**		mg/kg dry	1	0.0193	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Copper [7440-50-8] ^	**25.9**	B	mg/kg dry	1	0.0713	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	QB-01
Lead [7439-92-1] ^	**22.1**		mg/kg dry	1	0.0833	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Nickel [7440-02-0] ^	**23.9**		mg/kg dry	1	0.101	3.02	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Selenium [7782-49-2] ^	0.338	U	mg/kg dry	1	0.338	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Silver [7440-22-4] ^	0.0652	U	mg/kg dry	1	0.0652	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Thallium [7440-28-0] ^	0.193	U	mg/kg dry	1	0.193	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Vanadium [7440-62-2] ^	**53.1**		mg/kg dry	1	0.0399	0.604	9G08012	EPA 6010C	07/13/09 12:23	VLO	
Zinc [7440-66-6] ^	**53.7**		mg/kg dry	1	2.05	3.02	9G08012	EPA 6010C	07/13/09 12:23	VLO	

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Description:	Soil-9 1ft	**Lab Sample ID:**	C907933-01	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:50	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	82.8

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.068	U	mg/kg dry	1	0.068	1.2	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.25	U	mg/kg dry	1	0.25	1.2	9G12006	EPA 353.2	07/12/09 17:18	PEV	
Nitrite as N [14797-65-0]	0.068	U	mg/kg dry	1	0.068	1.2	9G09002	EPA 353.2	07/09/09 16:57	AJB	
pH [ECL-0062]	**7.4**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**510**	D	mg/kg dry	10	76	97	9G13007	EPA 365.4	07/15/09 07:13	PEV	
Sulfate as SO4 [14808-79-8]	**32**	J	mg/kg dry	1	0.94	60	9G10027	EPA 9056A	07/10/09 21:13	PEV	

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

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Description:	Soil-9 2ft	**Lab Sample ID:**	C907933-02	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:00	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	73.6

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0007	U	mg/kg dry	1	0.0007	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
2-Butanone [78-93-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
2-Hexanone [591-78-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Acetone [67-64-1] ^	**0.007**		mg/kg dry	1	0.001	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Acrylonitrile [107-13-1] ^	0.001	U	mg/kg dry	1	0.001	0.009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Iodomethane [74-88-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	**0.0006**	J	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Methylene chloride [75-09-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Tetrachloroethene [127-18-4] ^	**0.011**		mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Toluene [108-88-3] ^	**0.0006**	J	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Trichloroethene [79-01-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Vinyl acetate [108-05-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	
Xylenes (Total) [1330-20-7] ^	**0.0006**	J	mg/kg dry	1	0.0005	0.0009	9G09009	EPA 8260B	07/17/09 17:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-9 2ft	**Lab Sample ID:**	C907933-02	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:00	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	73.6

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 17:08*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 17:08*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 17:08*	*JKG*	

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Description:	Soil-9 2ft	**Lab Sample ID:**	C907933-02	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:00	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	73.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**0.813**	J	mg/kg dry	1	0.353	1.36	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Arsenic [7440-38-2] ^	**10.3**		mg/kg dry	1	0.326	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Barium [7440-39-3] ^	**50.5**		mg/kg dry	1	0.114	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Beryllium [7440-41-7] ^	**1.77**		mg/kg dry	1	0.00448	0.0679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Cadmium [7440-43-9] ^	**0.191**		mg/kg dry	1	0.00883	0.0679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Chromium [7440-47-3] ^	**25.4**	B	mg/kg dry	1	0.0435	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	QB-01
Cobalt [7440-48-4] ^	**18.4**		mg/kg dry	1	0.0217	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Copper [7440-50-8] ^	**27.6**	B	mg/kg dry	1	0.0802	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	QB-01
Lead [7439-92-1] ^	**20.7**		mg/kg dry	1	0.0938	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Nickel [7440-02-0] ^	**18.1**		mg/kg dry	1	0.114	3.40	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Selenium [7782-49-2] ^	0.380	U	mg/kg dry	1	0.380	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Silver [7440-22-4] ^	0.0734	U	mg/kg dry	1	0.0734	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Thallium [7440-28-0] ^	0.217	U	mg/kg dry	1	0.217	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Vanadium [7440-62-2] ^	**53.7**		mg/kg dry	1	0.0448	0.679	9G08012	EPA 6010C	07/13/09 12:25	VLO	
Zinc [7440-66-6] ^	**54.4**		mg/kg dry	1	2.31	3.40	9G08012	EPA 6010C	07/13/09 12:25	VLO	

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Description:	Soil-9 2ft	**Lab Sample ID:**	C907933-02	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:00	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	73.6

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.076	U	mg/kg dry	1	0.076	1.4	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.29	U	mg/kg dry	1	0.29	1.4	9G12006	EPA 353.2	07/12/09 17:19	PEV	
Nitrite as N [14797-65-0]	0.076	U	mg/kg dry	1	0.076	1.4	9G09002	EPA 353.2	07/09/09 16:58	AJB	
pH [ECL-0062]	**7.2**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**410**	D	mg/kg dry	10	72	91	9G13007	EPA 365.4	07/15/09 07:15	PEV	
Sulfate as SO4 [14808-79-8]	**23**	J	mg/kg dry	1	1.1	68	9G10027	EPA 9056A	07/10/09 21:30	PEV	

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Description:	Soil-9 3ft	**Lab Sample ID:**	C907933-03	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:05	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	86.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
2-Butanone [78-93-3] ^	**0.013**		mg/kg dry	1	0.0006	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
2-Hexanone [591-78-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Acetone [67-64-1] ^	**0.065**		mg/kg dry	1	0.0009	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Acrylonitrile [107-13-1] ^	0.001	U	mg/kg dry	1	0.001	0.008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Benzene [71-43-2] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Bromochloromethane [74-97-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Bromoform [75-25-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Carbon disulfide [75-15-0] ^	**0.0005**	J	mg/kg dry	1	0.0003	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Chlorobenzene [108-90-7] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Chloroform [67-66-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Dibromomethane [74-95-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Iodomethane [74-88-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Methylene chloride [75-09-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Styrene [100-42-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Tetrachloroethene [127-18-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Toluene [108-88-3] ^	**0.0003**	J	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Trichloroethene [79-01-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Vinyl acetate [108-05-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	
Xylenes (Total) [1330-20-7] ^	0.0004	U	mg/kg dry	1	0.0004	0.0008	9G09009	EPA 8260B	07/17/09 18:44	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	Soil-9 3ft	**Lab Sample ID:**	C907933-03	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:05	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	86.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 18:44*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 18:44*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 18:44*	*JKG*	

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Description:	Soil-9 3ft	**Lab Sample ID:**	C907933-03	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:05	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	86.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.301	U	mg/kg dry	1	0.301	1.16	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Arsenic [7440-38-2] ^	**2.96**		mg/kg dry	1	0.278	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Barium [7440-39-3] ^	**28.5**		mg/kg dry	1	0.0973	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Beryllium [7440-41-7] ^	**0.369**		mg/kg dry	1	0.00382	0.0579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Cadmium [7440-43-9] ^	**0.0420**	J	mg/kg dry	1	0.00753	0.0579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Chromium [7440-47-3] ^	**21.5**	B	mg/kg dry	1	0.0371	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	QB-01
Cobalt [7440-48-4] ^	**7.07**		mg/kg dry	1	0.0185	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Copper [7440-50-8] ^	**8.12**	B	mg/kg dry	1	0.0683	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	QB-01
Lead [7439-92-1] ^	**15.5**		mg/kg dry	1	0.0799	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Nickel [7440-02-0] ^	**4.73**		mg/kg dry	1	0.0973	2.90	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Selenium [7782-49-2] ^	0.324	U	mg/kg dry	1	0.324	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Silver [7440-22-4] ^	0.0625	U	mg/kg dry	1	0.0625	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Thallium [7440-28-0] ^	0.185	U	mg/kg dry	1	0.185	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Vanadium [7440-62-2] ^	**40.0**		mg/kg dry	1	0.0382	0.579	9G08012	EPA 6010C	07/13/09 12:28	VLO	
Zinc [7440-66-6] ^	**15.1**		mg/kg dry	1	1.97	2.90	9G08012	EPA 6010C	07/13/09 12:28	VLO	

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Description:	Soil-9 3ft	**Lab Sample ID:**	C907933-03	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 14:05	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	86.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.065	U	mg/kg dry	1	0.065	1.2	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.24	U	mg/kg dry	1	0.24	1.2	9G12006	EPA 353.2	07/12/09 17:20	PEV	
Nitrite as N [14797-65-0]	**2.5**		mg/kg dry	1	0.065	1.2	9G09002	EPA 353.2	07/09/09 17:00	AJB	
pH [ECL-0062]	**5.9**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**260**		mg/kg dry	1	7.3	9.3	9G13007	EPA 365.4	07/14/09 17:36	AJB	
Sulfate as SO4 [14808-79-8]	**33**	J	mg/kg dry	1	0.90	58	9G10027	EPA 9056A	07/10/09 21:46	PEV	

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Description:	Soil-13	**Lab Sample ID:**	C907933-04	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:30	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	54.5

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
2-Butanone [78-93-3] ^	0.001	U	mg/kg dry	1	0.001	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
2-Hexanone [591-78-6] ^	0.001	U	mg/kg dry	1	0.001	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0009	U	mg/kg dry	1	0.0009	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Acetone [67-64-1] ^	**0.10**		mg/kg dry	1	0.002	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Acrylonitrile [107-13-1] ^	0.003	U	mg/kg dry	1	0.003	0.017	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Benzene [71-43-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Bromochloromethane [74-97-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Bromoform [75-25-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Bromomethane [74-83-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Carbon disulfide [75-15-0] ^	0.0006	U	mg/kg dry	1	0.0006	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Carbon tetrachloride [56-23-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Chlorobenzene [108-90-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Chloroethane [75-00-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Chloroform [67-66-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Dibromochloromethane [124-48-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Dibromomethane [74-95-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Ethylbenzene [100-41-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Iodomethane [74-88-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Methylene chloride [75-09-2] ^	0.0009	U	mg/kg dry	1	0.0009	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
o-Xylene [95-47-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Styrene [100-42-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Tetrachloroethene [127-18-4] ^	**0.013**		mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Toluene [108-88-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Trichloroethene [79-01-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Vinyl acetate [108-05-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.008	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Vinyl chloride [75-01-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	
Xylenes (Total) [1330-20-7] ^	0.0009	U	mg/kg dry	1	0.0009	0.002	9G09009	EPA 8260B	07/17/09 19:16	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-13	**Lab Sample ID:**	C907933-04	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:30	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	54.5

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 19:16*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 19:16*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 19:16*	*JKG*	

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Description:	Soil-13	**Lab Sample ID:**	C907933-04	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:30	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	54.5

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**4.06**		mg/kg dry	1	0.477	1.83	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Arsenic [7440-38-2] ^	**5.07**		mg/kg dry	1	0.440	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Barium [7440-39-3] ^	**170**		mg/kg dry	1	0.154	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Beryllium [7440-41-7] ^	**1.71**		mg/kg dry	1	0.00605	0.0917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Cadmium [7440-43-9] ^	**0.492**		mg/kg dry	1	0.0119	0.0917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Chromium [7440-47-3] ^	**73.0**	B	mg/kg dry	1	0.0587	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	QB-01
Cobalt [7440-48-4] ^	**11.8**		mg/kg dry	1	0.0293	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Copper [7440-50-8] ^	**22.5**	B	mg/kg dry	1	0.108	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	QB-01
Lead [7439-92-1] ^	**26.3**		mg/kg dry	1	0.127	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Nickel [7440-02-0] ^	**23.6**		mg/kg dry	1	0.154	4.59	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Selenium [7782-49-2] ^	0.514	U	mg/kg dry	1	0.514	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Silver [7440-22-4] ^	**0.144**	J	mg/kg dry	1	0.0990	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Thallium [7440-28-0] ^	0.293	U	mg/kg dry	1	0.293	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Vanadium [7440-62-2] ^	**88.2**		mg/kg dry	1	0.0605	0.917	9G08012	EPA 6010C	07/13/09 12:30	VLO	
Zinc [7440-66-6] ^	**76.4**		mg/kg dry	1	3.12	4.59	9G08012	EPA 6010C	07/13/09 12:30	VLO	

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Description:	Soil-13	**Lab Sample ID:**	C907933-04	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:30	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	54.5

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.092	U	mg/kg dry	1	0.092	1.7	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.35	U	mg/kg dry	1	0.35	1.7	9G12006	EPA 353.2	07/12/09 17:21	PEV	
Nitrite as N [14797-65-0]	**0.63**	J	mg/kg dry	1	0.092	1.7	9G09002	EPA 353.2	07/09/09 17:01	AJB	
pH [ECL-0062]	**5.5**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**900**	D	mg/kg dry	10	95	120	9G13007	EPA 365.4	07/15/09 07:16	PEV	
Sulfate as SO4 [14808-79-8]	**45**	J	mg/kg dry	1	1.3	83	9G10027	EPA 9056A	07/10/09 22:03	PEV	

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

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Description:	Soil-14	**Lab Sample ID:**	C907933-05	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 09:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	63.0

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
2-Butanone [78-93-3] ^	**0.022**		mg/kg dry	1	0.0008	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
2-Hexanone [591-78-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Acetone [67-64-1] ^	**0.13**		mg/kg dry	1	0.001	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.011	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Bromodichloromethane [75-27-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Bromoform [75-25-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Carbon disulfide [75-15-0] ^	**0.0006**	J	mg/kg dry	1	0.0004	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Dibromochloromethane [124-48-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Iodomethane [74-88-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Methylene chloride [75-09-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Toluene [108-88-3] ^	**0.0008**	J	mg/kg dry	1	0.0002	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Vinyl chloride [75-01-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	
Xylenes (Total) [1330-20-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	9G09009	EPA 8260B	07/17/09 19:47	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-14	**Lab Sample ID:**	C907933-05	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 09:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	63.0

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 19:47*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 19:47*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 19:47*	*JKG*	

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Description:	Soil-14	**Lab Sample ID:**	C907933-05	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 09:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	63.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**4.06**		mg/kg dry	1	0.413	1.59	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Arsenic [7440-38-2] ^	**4.84**		mg/kg dry	1	0.381	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Barium [7440-39-3] ^	**127**		mg/kg dry	1	0.133	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Beryllium [7440-41-7] ^	**1.50**		mg/kg dry	1	0.00524	0.0794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Cadmium [7440-43-9] ^	**0.262**		mg/kg dry	1	0.0103	0.0794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Chromium [7440-47-3] ^	**67.3**	B	mg/kg dry	1	0.0508	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	QB-01
Cobalt [7440-48-4] ^	**10.2**		mg/kg dry	1	0.0254	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Copper [7440-50-8] ^	**20.8**	B	mg/kg dry	1	0.0937	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	QB-01
Lead [7439-92-1] ^	**25.0**		mg/kg dry	1	0.110	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Nickel [7440-02-0] ^	**19.6**		mg/kg dry	1	0.133	3.97	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Selenium [7782-49-2] ^	0.445	U	mg/kg dry	1	0.445	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Silver [7440-22-4] ^	**0.0976**	J	mg/kg dry	1	0.0857	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Thallium [7440-28-0] ^	0.254	U	mg/kg dry	1	0.254	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Vanadium [7440-62-2] ^	**83.0**		mg/kg dry	1	0.0524	0.794	9G08012	EPA 6010C	07/13/09 12:32	VLO	
Zinc [7440-66-6] ^	**55.6**		mg/kg dry	1	2.70	3.97	9G08012	EPA 6010C	07/13/09 12:32	VLO	

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Description:	Soil-14	**Lab Sample ID:**	C907933-05	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 09:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	63.0

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	**0.27**	J	mg/kg dry	1	0.089	1.6	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	**0.54**	J	mg/kg dry	1	0.33	1.6	9G12006	EPA 353.2	07/12/09 17:22	PEV	
Nitrite as N [14797-65-0]	**0.27**	J	mg/kg dry	1	0.089	1.6	9G09002	EPA 353.2	07/09/09 17:02	AJB	
pH [ECL-0062]	**6.0**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**700**	D	mg/kg dry	10	100	130	9G13007	EPA 365.4	07/15/09 07:17	PEV	
Sulfate as SO4 [14808-79-8]	**42**	J	mg/kg dry	1	1.2	79	9G10027	EPA 9056A	07/10/09 22:19	PEV	

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

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Description:	Soil-17	**Lab Sample ID:**	C907933-06	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 10:45	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	49.9

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.002	U	mg/kg dry	1	0.002	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0009	U	mg/kg dry	1	0.0009	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
2-Butanone [78-93-3] ^	**0.20**		mg/kg dry	1	0.002	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
2-Hexanone [591-78-6] ^	**0.019**		mg/kg dry	1	0.002	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.001	U	mg/kg dry	1	0.001	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Acetone [67-64-1] ^	**0.42**		mg/kg dry	1	0.002	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Acrylonitrile [107-13-1] ^	0.003	U	mg/kg dry	1	0.003	0.020	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Benzene [71-43-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Bromochloromethane [74-97-5] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Bromodichloromethane [75-27-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Bromoform [75-25-2] ^	0.0009	U	mg/kg dry	1	0.0009	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Bromomethane [74-83-9] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Carbon disulfide [75-15-0] ^	**0.002**	J	mg/kg dry	1	0.0008	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Chlorobenzene [108-90-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Chloroethane [75-00-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Chloroform [67-66-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Chloromethane [74-87-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Dibromochloromethane [124-48-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Dibromomethane [74-95-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Ethylbenzene [100-41-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Iodomethane [74-88-4] ^	0.0009	U	mg/kg dry	1	0.0009	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.004	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Methylene chloride [75-09-2] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
o-Xylene [95-47-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Styrene [100-42-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Tetrachloroethene [127-18-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Toluene [108-88-3] ^	**0.003**		mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Trichloroethene [79-01-6] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Vinyl acetate [108-05-4] ^	0.0009	U	mg/kg dry	1	0.0009	0.010	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Vinyl chloride [75-01-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	
Xylenes (Total) [1330-20-7] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G09009	EPA 8260B	07/17/09 20:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes

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Description:	Soil-17	**Lab Sample ID:**	C907933-06	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 10:45	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	49.9

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 20:19*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 20:19*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 20:19*	*JKG*	

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Description:	Soil-17	**Lab Sample ID:**	C907933-06	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 10:45	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	49.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.81**	J	mg/kg dry	1	0.521	2.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Arsenic [7440-38-2] ^	**4.42**		mg/kg dry	1	0.481	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Barium [7440-39-3] ^	**99.3**		mg/kg dry	1	0.168	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Beryllium [7440-41-7] ^	**1.12**		mg/kg dry	1	0.00661	0.100	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Cadmium [7440-43-9] ^	**0.150**		mg/kg dry	1	0.0130	0.100	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Chromium [7440-47-3] ^	**52.6**	B	mg/kg dry	1	0.0641	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	QB-01
Cobalt [7440-48-4] ^	**6.69**		mg/kg dry	1	0.0320	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Copper [7440-50-8] ^	**19.0**	B	mg/kg dry	1	0.118	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	QB-01
Lead [7439-92-1] ^	**23.9**		mg/kg dry	1	0.138	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Nickel [7440-02-0] ^	**13.7**		mg/kg dry	1	0.168	5.01	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Selenium [7782-49-2] ^	0.561	U	mg/kg dry	1	0.561	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Silver [7440-22-4] ^	0.108	U	mg/kg dry	1	0.108	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Thallium [7440-28-0] ^	0.320	U	mg/kg dry	1	0.320	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Vanadium [7440-62-2] ^	**77.8**		mg/kg dry	1	0.0661	1.00	9G08012	EPA 6010C	07/13/09 12:35	VLO	
Zinc [7440-66-6] ^	**103**		mg/kg dry	1	3.40	5.01	9G08012	EPA 6010C	07/13/09 12:35	VLO	

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Description:	Soil-17	**Lab Sample ID:**	C907933-06	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 10:45	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	49.9

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.10	U	mg/kg dry	1	0.10	1.8	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.37	U	mg/kg dry	1	0.37	1.8	9G12006	EPA 353.2	07/12/09 17:24	PEV	
Nitrite as N [14797-65-0]	0.10	U	mg/kg dry	1	0.10	1.8	9G09002	EPA 353.2	07/09/09 17:03	AJB	
pH [ECL-0062]	**6.2**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**610**	D	mg/kg dry	10	79	100	9G13007	EPA 365.4	07/15/09 07:19	PEV	
Sulfate as SO4 [14808-79-8]	**38**	J	mg/kg dry	1	1.4	89	9G10027	EPA 9056A	07/10/09 22:36	PEV	

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Description:	Soil-13D	**Lab Sample ID:**	C907933-07	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:40	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	60.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.001	U	mg/kg dry	1	0.001	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
2-Butanone [78-93-3] ^	0.001	U	mg/kg dry	1	0.001	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
2-Hexanone [591-78-6] ^	0.001	U	mg/kg dry	1	0.001	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0009	U	mg/kg dry	1	0.0009	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Acetone [67-64-1] ^	**0.15**		mg/kg dry	1	0.002	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Acrylonitrile [107-13-1] ^	0.003	U	mg/kg dry	1	0.003	0.017	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Benzene [71-43-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Bromochloromethane [74-97-5] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Bromodichloromethane [75-27-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Bromoform [75-25-2] ^	0.0007	U	mg/kg dry	1	0.0007	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Bromomethane [74-83-9] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Carbon disulfide [75-15-0] ^	0.0006	U	mg/kg dry	1	0.0006	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Chlorobenzene [108-90-7] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Chloroethane [75-00-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Chloroform [67-66-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Dibromochloromethane [124-48-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Dibromomethane [74-95-3] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Ethylbenzene [100-41-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Iodomethane [74-88-4] ^	0.0007	U	mg/kg dry	1	0.0007	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.003	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Methylene chloride [75-09-2] ^	0.0009	U	mg/kg dry	1	0.0009	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
o-Xylene [95-47-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Styrene [100-42-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Tetrachloroethene [127-18-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Toluene [108-88-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Trichloroethene [79-01-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Vinyl acetate [108-05-4] ^	0.0008	U	mg/kg dry	1	0.0008	0.008	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Vinyl chloride [75-01-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	
Xylenes (Total) [1330-20-7] ^	0.0009	U	mg/kg dry	1	0.0009	0.002	9G09009	EPA 8260B	07/17/09 20:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	Soil-13D	**Lab Sample ID:**	C907933-07	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:40	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	60.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 20:50*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 20:50*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 20:50*	*JKG*	

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Description:	Soil-13D	**Lab Sample ID:**	C907933-07	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:40	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	60.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**4.25**		mg/kg dry	1	0.431	1.66	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Arsenic [7440-38-2] ^	**5.03**		mg/kg dry	1	0.398	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Barium [7440-39-3] ^	**153**		mg/kg dry	1	0.139	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Beryllium [7440-41-7] ^	**1.71**		mg/kg dry	1	0.00547	0.0829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Cadmium [7440-43-9] ^	**0.522**		mg/kg dry	1	0.0108	0.0829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Chromium [7440-47-3] ^	**75.3**	B	mg/kg dry	1	0.0530	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	QB-01
Cobalt [7440-48-4] ^	**11.6**		mg/kg dry	1	0.0265	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Copper [7440-50-8] ^	**23.1**	B	mg/kg dry	1	0.0978	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	QB-01
Lead [7439-92-1] ^	**26.9**		mg/kg dry	1	0.114	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Nickel [7440-02-0] ^	**23.4**		mg/kg dry	1	0.139	4.14	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Selenium [7782-49-2] ^	0.464	U	mg/kg dry	1	0.464	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Silver [7440-22-4] ^	0.0895	U	mg/kg dry	1	0.0895	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Thallium [7440-28-0] ^	0.265	U	mg/kg dry	1	0.265	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Vanadium [7440-62-2] ^	**90.2**		mg/kg dry	1	0.0547	0.829	9G08012	EPA 6010C	07/13/09 12:37	VLO	
Zinc [7440-66-6] ^	**71.7**		mg/kg dry	1	2.82	4.14	9G08012	EPA 6010C	07/13/09 12:37	VLO	

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Description:	Soil-13D	**Lab Sample ID:**	C907933-07	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 11:40	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	60.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	**0.25**	J	mg/kg dry	1	0.093	1.7	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	**1.1**	J	mg/kg dry	1	0.35	1.7	9G12006	EPA 353.2	07/12/09 17:25	PEV	
Nitrite as N [14797-65-0]	**0.88**	J	mg/kg dry	1	0.093	1.7	9G09002	EPA 353.2	07/09/09 17:05	AJB	
pH [ECL-0062]	**5.7**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**830**	D	mg/kg dry	10	94	120	9G13007	EPA 365.4	07/15/09 07:20	PEV	
Sulfate as SO4 [14808-79-8]	**46**	J	mg/kg dry	1	1.3	83	9G10027	EPA 9056A	07/10/09 22:53	PEV	

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

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Description:	Soil-9 1ft D	**Lab Sample ID:**	C907933-08	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	81.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0006	U	mg/kg dry	1	0.0006	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
2-Butanone [78-93-3] ^	0.0006	U	mg/kg dry	1	0.0006	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
2-Hexanone [591-78-6] ^	0.0006	U	mg/kg dry	1	0.0006	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Acetone [67-64-1] ^	0.001	U	mg/kg dry	1	0.001	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Acrylonitrile [107-13-1] ^	0.001	U	mg/kg dry	1	0.001	0.008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Benzene [71-43-2] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Bromochloromethane [74-97-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Carbon disulfide [75-15-0] ^	0.0003	U	mg/kg dry	1	0.0003	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Chlorobenzene [108-90-7] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Chloroform [67-66-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Iodomethane [74-88-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.002	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Methylene chloride [75-09-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Styrene [100-42-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Tetrachloroethene [127-18-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Trichloroethene [79-01-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Vinyl acetate [108-05-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.004	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	
Xylenes (Total) [1330-20-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.0008	9G09009	EPA 8260B	07/17/09 21:22	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	Soil-9 1ft D	**Lab Sample ID:**	C907933-08	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	81.3

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*61-118*	*9G09009*	*EPA 8260B*	*07/17/09 21:22*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*66-114*	*9G09009*	*EPA 8260B*	*07/17/09 21:22*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*101 %*	*63-118*	*9G09009*	*EPA 8260B*	*07/17/09 21:22*	*JKG*	

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Description:	Soil-9 1ft D	**Lab Sample ID:**	C907933-08	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	81.3

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**1.73**		mg/kg dry	1	0.320	1.23	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Arsenic [7440-38-2] ^	**10.8**		mg/kg dry	1	0.295	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Barium [7440-39-3] ^	**75.4**		mg/kg dry	1	0.103	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Beryllium [7440-41-7] ^	**1.92**		mg/kg dry	1	0.00406	0.0615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Cadmium [7440-43-9] ^	**0.221**		mg/kg dry	1	0.00800	0.0615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Chromium [7440-47-3] ^	**32.9**	B	mg/kg dry	1	0.0394	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	QB-01
Cobalt [7440-48-4] ^	**21.2**		mg/kg dry	1	0.0197	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Copper [7440-50-8] ^	**25.6**	B	mg/kg dry	1	0.0726	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	QB-01
Lead [7439-92-1] ^	**21.2**		mg/kg dry	1	0.0849	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Nickel [7440-02-0] ^	**23.5**		mg/kg dry	1	0.103	3.08	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Selenium [7782-49-2] ^	0.344	U	mg/kg dry	1	0.344	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Silver [7440-22-4] ^	0.0664	U	mg/kg dry	1	0.0664	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Thallium [7440-28-0] ^	0.197	U	mg/kg dry	1	0.197	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Vanadium [7440-62-2] ^	**56.8**		mg/kg dry	1	0.0406	0.615	9G08012	EPA 6010C	07/13/09 12:39	VLO	
Zinc [7440-66-6] ^	**56.1**		mg/kg dry	1	2.09	3.08	9G08012	EPA 6010C	07/13/09 12:39	VLO	

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Description:	Soil-9 1ft D	**Lab Sample ID:**	C907933-08	**Received:**	07/09/09 09:45
Matrix:	Soil	**Sampled:**	07/08/09 13:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen	**% Solids:**	81.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.069	U	mg/kg dry	1	0.069	1.2	9G13027	EPA 353.2	07/14/09 08:50	AJB	
Nitrate/Nitrite as N [ECL-0010]	0.26	U	mg/kg dry	1	0.26	1.2	9G12006	EPA 353.2	07/12/09 17:26	PEV	
Nitrite as N [14797-65-0]	0.069	U	mg/kg dry	1	0.069	1.2	9G09002	EPA 353.2	07/09/09 17:06	AJB	
pH [ECL-0062]	**7.6**		pH Units	1	1.0	1.0	9G10007	EPA 9045D	07/10/09 15:30	FLT	Q
Phosphorus [7723-14-0]	**570**	D	mg/kg dry	10	68	86	9G13007	EPA 365.4	07/15/09 07:21	PEV	
Sulfate as SO4 [14808-79-8]	**30**	J	mg/kg dry	1	0.96	62	9G10027	EPA 9056A	07/10/09 23:09	PEV	

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

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Description: Equipment Blank B
Matrix: Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907933-09
Sampled: 07/08/09 13:40
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907933

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
2-Butanone [78-93-3] ^	**2.7**	J	ug/L	1	1.0	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Acetone [67-64-1] ^	**59**		ug/L	1	1.5	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Chloroform [67-66-3] ^	**4.0**		ug/L	1	0.20	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Styrene [100-42-5] ^	**0.52**	J	ug/L	1	0.26	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Toluene [108-88-3] ^	**0.76**	J	ug/L	1	0.27	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	9G21007	EPA 8260B	07/21/09 16:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*51-122*	*9G21007*	*EPA 8260B*	*07/21/09 16:38*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*9G21007*	*EPA 8260B*	*07/21/09 16:38*	*JKG*	

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Description:	Equipment Blank B	**Lab Sample ID:**	C907933-09	**Received:**	07/09/09 09:45
Matrix:	Water	**Sampled:**	07/08/09 13:40	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*69-110*	*9G21007*	*EPA 8260B*	*07/21/09 16:38*	*JKG*	

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

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Description: Trip Blank
Matrix: Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907933-10
Sampled: 07/08/09 09:55
Sampled By: ENCO

Received: 07/09/09 09:45
Work Order: C907933

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	9G18003	EPA 8260B	07/18/09 22:54	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*51-122*	*9G18003*	*EPA 8260B*	*07/18/09 22:54*	*JKG*	
Dibromofluoromethane	*43*	*1*	*50.0*	*87 %*	*68-117*	*9G18003*	*EPA 8260B*	*07/18/09 22:54*	*JKG*	

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Description:	Trip Blank	**Lab Sample ID:**	C907933-10	**Received:**	07/09/09 09:45
Matrix:	Water	**Sampled:**	07/08/09 09:55	**Work Order:**	C907933
Project:	Lincoln County Leachate Assessment	**Sampled By:**	ENCO		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*9G18003*	*EPA 8260B*	*07/18/09 22:54*	*JKG*	

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 9G09009 - EPA 5035_MS

Blank (9G09009-BLK1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G09009 - EPA 5035_MS

Blank (9G09009-BLK1) Continued Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 11:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*101*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*63-118*			

LCS (9G09009-BS1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 12:55

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		90	64-133			
Benzene	18		1.0	ug/L	20.0		88	79-129			
Chlorobenzene	19		1.0	ug/L	20.0		94	79-121			
Toluene	20		1.0	ug/L	20.0		100	77-120			
Trichloroethene	18		1.0	ug/L	20.0		90	78-118			
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*61-118*			
Surrogate: Dibromofluoromethane	*47*			*ug/L*	*50.0*		*93*	*66-114*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*63-118*			

Matrix Spike (9G09009-MS1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 13:25

Source: C907903-06

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	0.30 U	88	64-133			
Benzene	18		1.0	ug/L	20.0	0.17 U	91	79-129			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	79-121			
Toluene	20		1.0	ug/L	20.0	0.20 U	102	77-120			
Trichloroethene	19		1.0	ug/L	20.0	0.27 U	94	78-118			
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*93*	*66-114*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*102*	*63-118*			

Matrix Spike Dup (9G09009-MSD1) Prepared: 07/17/2009 09:03 Analyzed: 07/17/2009 13:55

Source: C907903-06

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	0.30 U	87	64-133	2	23	
Benzene	17		1.0	ug/L	20.0	0.17 U	85	79-129	8	23	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	90	79-121	6	25	
Toluene	20		1.0	ug/L	20.0	0.20 U	99	77-120	3	23	
Trichloroethene	18		1.0	ug/L	20.0	0.27 U	88	78-118	6	24	
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*61-118*			
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*66-114*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*63-118*			

Batch 9G18003 - EPA 5030B_MS

Blank (9G18003-BLK1) Prepared: 07/18/2009 12:41 Analyzed: 07/18/2009 19:31

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G18003 - EPA 5030B_MS

Blank (9G18003-BLK1) Continued Prepared: 07/18/2009 12:41 Analyzed: 07/18/2009 19:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G18003 - EPA 5030B_MS

Blank (9G18003-BLK1) Continued Prepared: 07/18/2009 12:41 Analyzed: 07/18/2009 19:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*87*	*68-117*			
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*69-110*			

LCS (9G18003-BS1) Prepared: 07/18/2009 12:41 Analyzed: 07/18/2009 20:00

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		91	75-133			
Benzene	23		1.0	ug/L	20.0		116	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		88	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	16		1.0	ug/L	20.0		82	75-115			

Matrix Spike (9G18003-MS1) Prepared: 07/18/2009 12:41 Analyzed: 07/18/2009 20:29

Source: C906034-04

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	0.24 U	114	75-133			
Benzene	29		1.0	ug/L	20.0	0.82	139	81-134			QM-07
Chlorobenzene	25		1.0	ug/L	20.0	3.4	109	83-117			
Toluene	25		1.0	ug/L	20.0	0.27 U	124	71-118			QM-07
Trichloroethene	20		1.0	ug/L	20.0	0.38 U	101	75-115			

Matrix Spike Dup (9G18003-MSD1) Prepared: 07/18/2009 12:41 Analyzed: 07/18/2009 20:58

Source: C906034-04

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	0.24 U	102	75-133	11	20	
Benzene	27		1.0	ug/L	20.0	0.82	131	81-134	6	17	
Chlorobenzene	23		1.0	ug/L	20.0	3.4	96	83-117	11	16	
Toluene	23		1.0	ug/L	20.0	0.27 U	114	71-118	8	17	
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	88	75-115	13	18	

Batch 9G20007 - EPA 5035_MS

Blank (9G20007-BLK1) Prepared: 07/20/2009 08:54 Analyzed: 07/22/2009 13:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G20007 - EPA 5035_MS

Blank (9G20007-BLK1) Continued Prepared: 07/20/2009 08:54 Analyzed: 07/22/2009 13:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*61-118*			
Surrogate: Dibromofluoromethane	*38*			*ug/L*	*50.0*		*77*	*66-114*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*63-118*			

LCS (9G20007-BS1) Prepared: 07/20/2009 08:54 Analyzed: 07/22/2009 15:50

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		103	64-133			
Benzene	19		1.0	ug/L	20.0		93	79-129			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G20007 - EPA 5035_MS

LCS (9G20007-BS1) Continued Prepared: 07/20/2009 08:54 Analyzed: 07/22/2009 15:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	22		1.0	ug/L	20.0		111	79-121			
Toluene	23		1.0	ug/L	20.0		114	77-120			
Trichloroethene	18		1.0	ug/L	20.0		92	78-118			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*61-118*			
Surrogate: Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*66-114*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*63-118*			

Matrix Spike (9G20007-MS1) Prepared: 07/20/2009 08:54 Analyzed: 07/22/2009 14:14

Source: C908471-07

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	0.30 U	86	64-133			
Benzene	16		1.0	ug/L	20.0	0.17 U	82	79-129			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	79-121			
Toluene	19		1.0	ug/L	20.0	0.20 U	95	77-120			
Trichloroethene	16		1.0	ug/L	20.0	0.27 U	81	78-118			
Surrogate: 4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*61-118*			
Surrogate: Dibromofluoromethane	*37*			*ug/L*	*50.0*		*74*	*66-114*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*63-118*			

Matrix Spike Dup (9G20007-MSD1) Prepared: 07/20/2009 08:54 Analyzed: 07/22/2009 15:18

Source: C908471-07

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	0.30 U	84	64-133	3	23	
Benzene	16		1.0	ug/L	20.0	0.17 U	81	79-129	2	23	
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	84	79-121	12	25	
Toluene	18		1.0	ug/L	20.0	0.20 U	89	77-120	7	23	
Trichloroethene	16		1.0	ug/L	20.0	0.27 U	82	78-118	0.1	24	
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*85*	*61-118*			
Surrogate: Dibromofluoromethane	*38*			*ug/L*	*50.0*		*76*	*66-114*			
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*85*	*63-118*			

Batch 9G21007 - EPA 5030B_MS

Blank (9G21007-BLK1) Prepared: 07/21/2009 09:30 Analyzed: 07/21/2009 11:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G21007 - EPA 5030B_MS

Blank (9G21007-BLK1) Continued Prepared: 07/21/2009 09:30 Analyzed: 07/21/2009 11:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*88*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

LCS (9G21007-BS1) Prepared: 07/21/2009 09:30 Analyzed: 07/21/2009 12:25

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	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		105	83-117			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G21007 - EPA 5030B_MS

LCS (9G21007-BS1) Continued Prepared: 07/21/2009 09:30 Analyzed: 07/21/2009 12:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	20		1.0	ug/L	20.0		102	71-118			
Trichloroethene	21		1.0	ug/L	20.0		106	75-115			

Matrix Spike (9G21007-MS1) Prepared: 07/21/2009 09:30 Analyzed: 07/21/2009 12:55

Source: C906034-04RE1

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	0.24 U	116	75-133			
Benzene	22		1.0	ug/L	20.0	0.62	107	81-134			
Chlorobenzene	26		1.0	ug/L	20.0	3.6	111	83-117			
Toluene	22		1.0	ug/L	20.0	0.27 U	109	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	111	75-115			

Matrix Spike Dup (9G21007-MSD1) Prepared: 07/21/2009 09:30 Analyzed: 07/21/2009 13:26

Source: C906034-04RE1

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	0.24 U	111	75-133	4	20	
Benzene	22		1.0	ug/L	20.0	0.62	109	81-134	1	17	
Chlorobenzene	26		1.0	ug/L	20.0	3.6	113	83-117	2	16	
Toluene	22		1.0	ug/L	20.0	0.27 U	108	71-118	2	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	111	75-115	0.04	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

Blank (9G08012-BLK1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.260	U	1.00	mg/kg wet							
Arsenic	0.240	U	0.500	mg/kg wet							
Barium	0.0840	U	0.500	mg/kg wet							
Beryllium	0.00330	U	0.0500	mg/kg wet							
Cadmium	0.00650	U	0.0500	mg/kg wet							
Chromium	**0.0330**	**J**	0.500	mg/kg wet							
Cobalt	0.0160	U	0.500	mg/kg wet							
Copper	**0.0680**	**J**	0.500	mg/kg wet							
Lead	0.0690	U	0.500	mg/kg wet							
Nickel	0.0840	U	2.50	mg/kg wet							
Selenium	0.280	U	0.500	mg/kg wet							
Silver	0.0540	U	0.500	mg/kg wet							
Thallium	0.160	U	0.500	mg/kg wet							
Vanadium	0.0330	U	0.500	mg/kg wet							
Zinc	1.70	U	2.50	mg/kg wet							

LCS (9G08012-BS1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:33

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

LCS (9G08012-BS1) Continued Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.6		1.00	mg/kg wet	25.0		103	85-115			
Arsenic	51.4		0.500	mg/kg wet	50.0		103	85-115			
Barium	51.7		0.500	mg/kg wet	50.0		103	85-115			
Beryllium	26.1		0.0500	mg/kg wet	25.0		105	85-115			
Cadmium	26.0		0.0500	mg/kg wet	25.0		104	85-115			
Chromium	52.6	B	0.500	mg/kg wet	50.0		105	85-115			
Cobalt	51.5		0.500	mg/kg wet	50.0		103	85-115			
Copper	26.2	B	0.500	mg/kg wet	25.0		105	85-115			
Lead	51.9		0.500	mg/kg wet	50.0		104	85-115			
Nickel	52.2		2.50	mg/kg wet	50.0		104	85-115			
Selenium	51.6		0.500	mg/kg wet	50.0		103	85-115			
Silver	5.26		0.500	mg/kg wet	5.00		105	85-115			
Thallium	25.6		0.500	mg/kg wet	25.0		102	85-115			
Vanadium	26.5		0.500	mg/kg wet	25.0		106	85-115			
Zinc	52.4		2.50	mg/kg wet	50.0		105	85-115			

Matrix Spike (9G08012-MS1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:39

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	30.7		2.96	mg/kg dry	74.8	7.69	31	80-120			QM-07
Arsenic	166		1.48	mg/kg dry	150	16.3	100	80-120			
Barium	420		1.48	mg/kg dry	150	278	95	80-120			
Beryllium	79.5		0.148	mg/kg dry	74.8	2.64	103	80-120			
Cadmium	68.8		0.148	mg/kg dry	74.8	0.408	91	80-120			
Chromium	301	B	1.48	mg/kg dry	150	164	92	80-120			
Cobalt	147		1.48	mg/kg dry	150	7.25	93	80-120			
Copper	98.9	B	1.48	mg/kg dry	74.8	25.5	98	80-120			
Lead	146		1.48	mg/kg dry	150	10.6	90	80-120			
Nickel	166		7.41	mg/kg dry	150	24.0	95	80-120			
Selenium	155		1.48	mg/kg dry	150	6.96	99	80-120			
Silver	14.8		1.48	mg/kg dry	15.0	0.160 U	99	80-120			
Thallium	46.8		1.48	mg/kg dry	74.8	0.474 U	62	80-120			QM-07
Vanadium	145		1.48	mg/kg dry	74.8	69.4	101	80-120			
Zinc	201		7.41	mg/kg dry	150	66.2	90	80-120			

Matrix Spike Dup (9G08012-MSD1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:41

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	32.0		2.96	mg/kg dry	74.8	7.69	33	80-120	4	30	QM-07
Arsenic	165		1.48	mg/kg dry	150	16.3	99	80-120	0.2	30	
Barium	408		1.48	mg/kg dry	150	278	87	80-120	3	30	
Beryllium	79.1		0.148	mg/kg dry	74.8	2.64	102	80-120	0.5	30	
Cadmium	68.4		0.148	mg/kg dry	74.8	0.408	91	80-120	0.6	30	
Chromium	297	B	1.48	mg/kg dry	150	164	89	80-120	1	30	
Cobalt	148		1.48	mg/kg dry	150	7.25	94	80-120	0.6	30	
Copper	97.5	B	1.48	mg/kg dry	74.8	25.5	96	80-120	1	30	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 9G08012 - EPA 3050B

Matrix Spike Dup (9G08012-MSD1) Continued Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:41

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	147		1.48	mg/kg dry	150	10.6	91	80-120	0.6	30	
Nickel	167		7.41	mg/kg dry	150	24.0	95	80-120	0.5	30	
Selenium	155		1.48	mg/kg dry	150	6.96	99	80-120	0.02	30	
Silver	14.7		1.48	mg/kg dry	15.0	0.160 U	98	80-120	0.6	30	
Thallium	46.5		1.48	mg/kg dry	74.8	0.474 U	62	80-120	0.5	30	QM-07
Vanadium	142		1.48	mg/kg dry	74.8	69.4	98	80-120	2	30	
Zinc	198		7.41	mg/kg dry	150	66.2	88	80-120	2	30	

Post Spike (9G08012-PS1) Prepared: 07/10/2009 10:49 Analyzed: 07/13/2009 11:43

Source: C907719-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.562		0.0200	mg/L	0.500	0.0514	102	80-120			
Arsenic	1.18		0.0100	mg/L	1.00	0.109	108	80-120			
Barium	2.85		0.0100	mg/L	1.00	1.86	99	80-120			
Beryllium	0.568		0.00100	mg/L	0.500	0.0177	110	80-120			
Cadmium	0.493		0.00100	mg/L	0.500	0.00273	98	80-120			
Chromium	2.11	B	0.0100	mg/L	1.00	1.09	102	80-120			
Cobalt	1.06		0.0100	mg/L	1.00	0.0484	101	80-120			
Copper	0.693	B	0.0100	mg/L	0.500	0.170	104	80-120			
Lead	1.05		0.0100	mg/L	1.00	0.0707	98	80-120			
Nickel	1.19		0.0500	mg/L	1.00	0.161	103	80-120			
Selenium	1.12		0.0100	mg/L	1.00	0.0465	108	80-120			
Silver	0.0932		0.0100	mg/L	0.100	-0.00570	99	80-120			
Thallium	0.343		0.0100	mg/L	0.500	-0.137	96	80-120			
Vanadium	1.00		0.0100	mg/L	0.500	0.464	108	80-120			
Zinc	1.41		0.0500	mg/L	1.00	0.442	96	80-120			

Classical Chemistry Parameters - Quality Control

Batch 9G09002 - WETS-88 Soil Leaching

Blank (9G09002-BLK1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.056	U	1.0	mg/kg wet							

LCS (9G09002-BS1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		100	80-120			

Matrix Spike (9G09002-MS1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:46

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.98		0.10	mg/L	1.00	0.022	96	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G09002 - WETS-88 Soil Leaching

Matrix Spike Dup (9G09002-MSD1) Prepared: 07/09/2009 09:26 Analyzed: 07/09/2009 16:47

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.022	98	80-120	2	25	

Batch 9G10007 - Same

LCS (9G10007-BS1) Prepared & Analyzed: 07/10/2009 15:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.01		100	99-101			

Duplicate (9G10007-DUP1) Prepared: 07/10/2009 10:32 Analyzed: 07/10/2009 15:30

Source: C907933-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.9		1.0	pH Units		7.6			4	25	Q

Batch 9G10027 - WETS-88 Soil Leaching

Blank (9G10027-BLK1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 17:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.78	U	50	mg/kg wet							

LCS (9G10027-BS1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 17:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		98	80-120			

Matrix Spike (9G10027-MS1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 18:10

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	51		5.0	mg/L	50.0	2.8	96	80-120			

Matrix Spike Dup (9G10027-MSD1) Prepared: 07/09/2009 09:26 Analyzed: 07/10/2009 18:26

Source: C907671-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	52		5.0	mg/L	50.0	2.8	99	80-120	2	15	

Batch 9G12006 - WETS-88 Soil Leaching

Blank (9G12006-BLK1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:53

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.21	U	1.0	mg/kg wet							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G12006 - WETS-88 Soil Leaching

LCS (9G12006-BS1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:55

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	1.28		91	80-120			

Matrix Spike (9G12006-MS1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 16:59

Source: C907671-01

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	1.28	0.03	87	80-120			

Matrix Spike Dup (9G12006-MSD1) Prepared: 07/09/2009 09:26 Analyzed: 07/12/2009 17:01

Source: C907671-01

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	1.28	0.03	91	80-120	4	25	

Batch 9G13007 - Same

Blank (9G13007-BLK1) Prepared: 07/13/2009 09:12 Analyzed: 07/14/2009 17:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	6.3	U	8.0	mg/kg wet							

LCS (9G13007-BS1) Prepared: 07/13/2009 09:12 Analyzed: 07/14/2009 17:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	120		8.0	mg/kg wet	120		103	80-120			

Matrix Spike (9G13007-MS1) Prepared: 07/13/2009 09:12 Analyzed: 07/14/2009 17:28

Source: C907933-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	510	E	6.7	mg/kg dry	107	510	NR	80-120			QM-02

Matrix Spike Dup (9G13007-MSD1) Prepared: 07/13/2009 09:12 Analyzed: 07/14/2009 17:29

Source: C907933-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	570	E	8.8	mg/kg dry	140	510	43	80-120	12	25	QM-02

Batch 9G14004 - % Solids

Duplicate (9G14004-DUP1) Prepared: 07/14/2009 09:46 Analyzed: 07/14/2009 12:52

Source: C907213-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87		0.1	% by Weight		86			1	10	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G14004 - % Solids

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.
Q	Analysis performed outside of method - specified holding time.
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.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
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: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~ 49780
Tel: (704) 523-4726 / Fax: (704) 525-1953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S+ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder: C907671

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers			Sample Comments
	Soil-7	7/7/09	1350	G	SO	4	X	X	Received 7-8-09
	Soil-8	7/7/09	0945	G	SO	4	X	X	↓
	Soil-9 1ft	7/8/09	1350	G	SO	4	X	X	C907933
	Soil-9 2ft	7/8/09	1400	G	SO	4	X	X	↓
	Soil-9 3ft	7/8/09	1405	G	SO	4	X	X	↓
	~~Soil-9 4ft~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	~~Soil-9 5ft~~				~~SO~~	~~4~~	~~X~~	~~X~~	Received 7-8-09
	Soil-10	7/7/09	0930	G	SO	4	X	X	↳ ↓
	Soil-11	7/7/09	1045	G	SO	4	X	X	↓
	Soil-12	7/7/09	1425	G	SO	4	X	X	↓ BSG 7-9-09
	Soil-13	7/8/09	~~0955~~ 1130	G	SO	4	X	X	C907933
	Soil-14	7/8/09	0955	G	SO	4	X	X	↓

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CCB	07/02/09	[signature]	7/8/09 1630	Briana Gregory	7-9-09 9:45

Comments: Blue 3.3°C; C-477 1.9°C

Cooler #'s & Temps on Receipt: C-891 1.3°C; C-507 3.6°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil 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 CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
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Page ___ of ___

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~
Tel: (704) 523-4726 / Fax: (704) 525-3953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S+ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due __/__/__

Lab Workorder: C907671

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers			Sample Comments
	Soil-15	7/7/09	1120	G	SO	4	X	X	Received 7-8-09
	Soil-16	~~7/7/09~~ ~~1000~~	1000	G	SO	4	X	X	↓
	Soil-17	7/8/09	1045	G	SO	4	X	X	C907933
	Soil- 13D	7/8/09	1140	G	SO	4	X	X	↓
	Soil- 9 1ft D	7/8/09	1355	G	SO	4	X	X	
	~~Soil-~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	~~Soil~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	~~Soil-~~				~~SO~~	~~4~~	~~X~~	~~X~~	
	Equipment Blank B	7/8/09	1340	G	WA	3		X	C907933
	Trip Blank	7/8/09			WA	2		X	C907933

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CCB	07/02/09	[signature]	7/8/09 1630	Briana Gregory	7-9-09 9:45
Comments: Blue 3.2°C; C-477 1.9°C		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-491 1.3°C C-507 3.6°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil 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, July 23, 2009

S&ME, Inc. (SM002)

Attn: Julie Petersen

9751 Southern Pine Blvd.

Charlotte, NC 28273

RE: Laboratory Results for
Project Number: 1356-09-006, Project Name/Desc: Lincoln County Leachate Assessment
ENCO Workorder: C907926

Dear Julie Petersen,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, July 9, 2009.

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 59.

PROJECT NARRATIVE

Date: July 23, 2009

Client: S&ME, Inc.

Project #: Lincoln County Leachate Assessment

Lab ID: C907926

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

Due to analyst oversight, the BOD analysis of samples 5503-SW11, 5503-SW12 and 5503-SW12D were completed after 6 days of incubation rather than 5. This gives the results a possible high bias. The samples were prepared within the 48-hour hold time as required by the method. The quality control samples associated with this project were within acceptable range.

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative. Should there be any questions regarding this package, please feel free to contact the undersigned for additional information.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 5503-SW8 **Lab ID:** C907926-01 **Sampled:** 07/08/09 10:30 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 14:50
EPA 353.2	07/10/09	10:30		07/09/09	14:16	7/9/2009 17:26
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:34
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:25
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 12:46
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:29
EPA 8260B	07/22/09			07/08/09	13:43	7/10/2009 06:03
SM 2540D	07/15/09			07/14/09	15:26	7/15/2009 15:11
SM 5210B	07/10/09	10:30	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/05/09			07/13/09	14:50	7/13/2009 18:10

Client ID: 5503-SW9 **Lab ID:** C907926-02 **Sampled:** 07/08/09 10:20 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 15:06
EPA 353.2	07/10/09	10:20		07/09/09	14:16	7/9/2009 17:27
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:36
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:27
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 12:48
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:32
EPA 8260B	07/22/09			07/08/09	13:43	7/10/2009 06:32
SM 2540D	07/15/09			07/14/09	15:26	7/15/2009 15:11
SM 5210B	07/10/09	10:20	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/05/09			07/13/09	14:50	7/13/2009 18:10

Client ID: 5503-SW11 **Lab ID:** C907926-03 **Sampled:** 07/08/09 12:10 **Received:** 07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 15:23
EPA 353.2	07/10/09	12:10		07/09/09	14:16	7/9/2009 17:28
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:36
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:29
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 12:50
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:36
EPA 8260B	07/22/09			07/08/09	13:43	7/10/2009 07:01
SM 2540D	07/15/09			07/14/09	15:26	7/15/2009 15:11
SM 5210B	07/10/09	12:10	07/15/09	07/10/09	09:54	7/16/2009 17:59
SM 5220D	08/05/09			07/16/09	11:20	7/16/2009 14:35

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Client ID:	5503-SW12	Lab ID:	C907926-04	Sampled:	07/08/09 11:45	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 15:40
EPA 353.2	07/10/09	11:45		07/09/09	14:16	7/9/2009 17:29
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:30
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 12:52
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:39
EPA 8260B	07/22/09			07/08/09	13:43	7/10/2009 07:31
SM 2540D	07/15/09			07/14/09	15:26	7/15/2009 15:11
SM 5210B	07/10/09	11:45	07/15/09	07/10/09	09:54	7/16/2009 17:59
SM 5220D	08/05/09			07/13/09	14:50	7/13/2009 18:10

Client ID:	5503-SW12	Lab ID:	C907926-04RE1	Sampled:	07/08/09 11:45	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 13:11

Client ID:	5503-SW16	Lab ID:	C907926-05	Sampled:	07/08/09 09:40	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 16:30
EPA 353.2	07/10/09	09:40		07/09/09	14:16	7/9/2009 17:30
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:38
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:31
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 12:22
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:43
EPA 8260B	07/22/09			07/08/09	13:43	7/10/2009 08:00
SM 2540D	07/15/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/10/09	09:40	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/05/09			07/13/09	14:50	7/13/2009 18:10

Client ID:	5503-SW17	Lab ID:	C907926-06	Sampled:	07/08/09 09:20	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 16:46
EPA 353.2	07/10/09	09:20		07/09/09	14:16	7/9/2009 17:31
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:39
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:32
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 13:02
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:46
EPA 8260B	07/22/09			07/08/09	13:43	7/10/2009 08:29
SM 2540D	07/15/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/10/09	09:20	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/05/09			07/13/09	14:50	7/13/2009 18:10

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Client ID:	5503-SW16D	Lab ID:	C907926-07	Sampled:	07/08/09 09:50	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 17:03
EPA 353.2	07/10/09	09:50		07/09/09	14:16	7/9/2009 17:32
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:40
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:35
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 13:04
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:50
EPA 8260B	07/22/09			07/10/09	10:21	7/10/2009 23:34
SM 2540D	07/15/09			07/14/09	10:31	7/15/2009 12:55
SM 5210B	07/10/09	09:50	07/14/09	07/09/09	11:09	7/14/2009 13:45
SM 5220D	08/05/09			07/13/09	14:50	7/13/2009 18:10

Client ID:	5503-SW12D	Lab ID:	C907926-08	Sampled:	07/08/09 11:55	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	08/05/09			07/10/09	10:26	7/10/2009 17:20
EPA 353.2	07/10/09	11:55		07/09/09	14:16	7/9/2009 17:32
EPA 353.2	08/05/09			07/13/09	09:51	7/14/2009 12:41
EPA 353.2	08/05/09			07/15/09	09:53	7/15/2009 09:53
EPA 365.4	08/05/09			07/15/09	13:32	7/16/2009 15:36
EPA 6010C	01/04/10			07/10/09	09:23	7/16/2009 13:06
EPA 6020A	01/04/10			07/09/09	10:42	7/14/2009 12:53
EPA 8260B	07/22/09			07/10/09	10:21	7/11/2009 00:04
SM 2540D	07/15/09			07/14/09	15:26	7/15/2009 15:11
SM 5210B	07/10/09	11:55	07/15/09	07/10/09	09:54	7/16/2009 17:59
SM 5220D	08/05/09			07/16/09	11:20	7/16/2009 14:35

Client ID:	5503-Field Blank	Lab ID:	C907926-09	Sampled:	07/08/09 13:35	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/22/09		07/10/09	10:21	7/11/2009 00:34

Client ID:	5503-Trip Blank	Lab ID:	C907926-10	Sampled:	07/08/09 09:20	Received:	07/09/09 09:45

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	07/22/09		07/10/09	10:21	7/11/2009 01:03

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 5503-SW8 **Lab ID: C907926-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	1.02	J	1	0.680	5.00	6	ug/L	EPA 6020A	
Barium - Total	68.1	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	4.8		1	2.0	2.0	NE	mg/L	SM 5210B	
Chemical Oxygen Demand	48		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	3.96	JB	1	0.710	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	2.95	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.56	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	2.94	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.047	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.047	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Phosphorus	0.13		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.3	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	350		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	5.87	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	39.1		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW9 **Lab ID: C907926-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	5.57	J	1	0.680	5.00	6	ug/L	EPA 6020A	
Barium - Total	108		1	4.20	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	16		1	2.0	2.0	NE	mg/L	SM 5210B	
Chemical Oxygen Demand	88		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	2.66	JB	1	0.710	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	7.51	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.88	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	2.73	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.63	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.14	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.14		1	0.021	0.10	NE	mg/L	EPA 353.2	
Phosphorus	0.26		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.2	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Toluene	1.5		1	0.27	1.0	1	ug/L	EPA 8260B	
Total Suspended Solids	88		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	3.56	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	43.7		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW11 **Lab ID: C907926-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	2.43	J	1	0.680	5.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.47	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	200		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.172	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	5.9		1	2.0	2.0	NE	mg/L	SM 5210B	Q
Cadmium - Total	0.233	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	72		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	7.73	JB	1	0.710	10.0	10	ug/L	EPA 6010C	QB-01
Cobalt - Total	14.7		1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	4.01	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	5.64	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW11 **Lab ID: C907926-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nickel - Total	4.74	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.12	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.12		1	0.021	0.10	NE	mg/L	EPA 353.2	
Phosphorus	0.26		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.5	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Toluene	8.2		1	0.27	1.0	1	ug/L	EPA 8260B	
Total Suspended Solids	84		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	9.92	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	37.4		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW12 **Lab ID: C907926-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.970	J	1	0.680	5.00	6	ug/L	EPA 6020A	
Barium - Total	139		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.161	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	13		1	2.0	2.0	NE	mg/L	SM 5210B	Q
Cadmium - Total	0.113	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	100		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	6.86	JB	1	0.710	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	12.7		1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	3.58	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	5.71	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	3.57	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	2.8	J	1	0.0056	1.0	10	mg/L	EPA 353.2	
Phosphorus	0.49		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.1	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Toluene	2.8		1	0.27	1.0	1	ug/L	EPA 8260B	
Total Suspended Solids	190		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	8.67	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	37.6		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW12 **Lab ID: C907926-04RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	2.8	D	10	0.21	1.0	NE	mg/L	EPA 353.2	

Client ID: 5503-SW16 **Lab ID: C907926-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	48.9	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Cadmium - Total	0.0983	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	37		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	3.58	JB	1	0.710	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	1.82	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	1.92	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Lead - Total	2.75	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.46	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.034	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.034	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Phosphorus	0.086	J	1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.4	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	75		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	3.91	J	1	0.680	10.0	25	ug/L	EPA 6010C	

Client ID: 5503-SW16 **Lab ID: C907926-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	37.4		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW17 **Lab ID: C907926-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	28.7	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Chemical Oxygen Demand	16		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	2.25	JB	1	0.710	10.0	10	ug/L	EPA 6010C	J-01
Cobalt - Total	0.654	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.13	JB	1	0.810	10.0	10	ug/L	EPA 6010C	J-01
Nickel - Total	1.26	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.64	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.65		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0081	J	1	0.0056	0.10	1	mg/L	EPA 353.2	
Phosphorus	0.092	J	1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	4.1	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	38		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	1.82	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	8.91	J	1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW16D **Lab ID: C907926-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	45.4	J	1	4.20	10.0	100	ug/L	EPA 6010C	
Chemical Oxygen Demand	41		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	2.35	JB	1	0.710	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.96	J	1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	2.12	JB	1	0.810	10.0	10	ug/L	EPA 6010C	
Lead - Total	2.15	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	1.34	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.066	J	1	0.0056	0.10	10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.066	J	1	0.021	0.10	NE	mg/L	EPA 353.2	
Phosphorus	0.080	J	1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	2.4	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Total Suspended Solids	17		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	3.17	J	1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	29.1		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-SW12D **Lab ID: C907926-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	3.62	J	1	0.680	5.00	6	ug/L	EPA 6020A	
Arsenic - Total	3.26	J	1	2.80	10.0	10	ug/L	EPA 6010C	
Barium - Total	373		1	4.20	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.527	J	1	0.0750	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	23		1	2.0	2.0	NE	mg/L	SM 5210B	Q
Cadmium - Total	0.437	J	1	0.0870	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	210		1	3.1	10	NE	mg/L	SM 5220D	
Chromium - Total	23.6	B	1	0.710	10.0	10	ug/L	EPA 6010C	QB-01
Cobalt - Total	36.3		1	0.580	10.0	10	ug/L	EPA 6010C	
Copper - Total	15.5	B	1	0.810	10.0	10	ug/L	EPA 6010C	QB-01
Lead - Total	11.9		1	1.60	10.0	10	ug/L	EPA 6010C	
Nickel - Total	10.4	J	1	0.650	50.0	50	ug/L	EPA 6010C	
Nitrate as N	0.21	J	1	0.0056	0.10	10	mg/L	EPA 353.2	

Client ID: 5503-SW12D **Lab ID:** C907926-08

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	0.22		1	0.021	0.10	NE	mg/L	EPA 353.2	
Nitrite as N	0.0060	J	1	0.0056	0.10	1	mg/L	EPA 353.2	
Phosphorus	0.89		1	0.050	0.10	NE	mg/L	EPA 365.4	
Silver - Total	1.05	J	1	0.960	10.0	10	ug/L	EPA 6010C	
Sulfate as SO4	16	J	1	0.078	5.0	250	mg/L	EPA 300.0	
Toluene	4.9		1	0.27	1.0	1	ug/L	EPA 8260B	
Total Suspended Solids	220		1	1.0	1.0	NE	mg/L	SM 2540D	
Vanadium - Total	28.0		1	0.680	10.0	25	ug/L	EPA 6010C	
Zinc - Total	80.6		1	3.40	20.0	10	ug/L	EPA 6010C	

Client ID: 5503-Field Blank **Lab ID:** C907926-09

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	42	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Chloroform	4.6	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Styrene	0.76	J	1	0.26	1.0	1	ug/L	EPA 8260B	
Toluene	0.75	J	1	0.27	1.0	1	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: 5503-SW8
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-01
Sampled: 07/08/09 10:30
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 06:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 06:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 06:03	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 06:03	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 06:03	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 06:03	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 06:03	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 06:03	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 06:03	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 06:03	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 06:03	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 06:03	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 06:03	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 06:03	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 06:03	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 06:03	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 06:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 06:03	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:03	JKG	

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Description:	5503-SW8	**Lab Sample ID:**	C907926-01	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 10:30	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 06:03	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 06:03	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 06:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 06:03*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 06:03*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 06:03*	*JKG*	

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Description: 5503-SW8
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-01
Sampled: 07/08/09 10:30
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	**1.02**	J	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:29	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 12:46	vlo	
Barium [7440-39-3] ^	**68.1**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 12:46	vlo	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 12:46	vlo	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 12:46	vlo	
Chromium [7440-47-3] ^	**3.96**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 12:46	vlo	J-01
Cobalt [7440-48-4] ^	**2.95**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 12:46	vlo	
Copper [7440-50-8] ^	**1.56**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 12:46	vlo	J-01
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 12:46	vlo	
Nickel [7440-02-0] ^	**2.94**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 12:46	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 12:46	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 12:46	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:29	VLO	
Vanadium [7440-62-2] ^	**5.87**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 12:46	vlo	
Zinc [7440-66-6] ^	**39.1**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 12:46	vlo	

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Description:	5503-SW8	**Lab Sample ID:**	C907926-01	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 10:30	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**4.8**		mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**48**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.047**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.047**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:34	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:26	AJB	
Phosphorus [7723-14-0] ^	**0.13**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:25	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.3**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 14:50	PEV	
Total Suspended Solids [ECL-0169] ^	**350**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 15:11	JOC	

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Description: 5503-SW9
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-02
Sampled: 07/08/09 10:20
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 06:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 06:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 06:32	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 06:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 06:32	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 06:32	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 06:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 06:32	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 06:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 06:32	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 06:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 06:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 06:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 06:32	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 06:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 06:32	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Toluene [108-88-3] ^	**1.5**		ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 06:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 06:32	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 06:32	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 06:32	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 06:32	JKG	

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Description:	5503-SW9	**Lab Sample ID:**	C907926-02	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 10:20	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 06:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 06:32*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 06:32*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 06:32*	*JKG*	

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Description: 5503-SW9
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-02
Sampled: 07/08/09 10:20
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	**5.57**	J	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:32	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 12:48	vlo	
Barium [7440-39-3] ^	**108**		ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 12:48	vlo	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 12:48	vlo	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 12:48	vlo	
Chromium [7440-47-3] ^	**2.66**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 12:48	vlo	J-01
Cobalt [7440-48-4] ^	**7.51**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 12:48	vlo	
Copper [7440-50-8] ^	**1.88**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 12:48	vlo	J-01
Lead [7439-92-1] ^	**2.73**	J	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 12:48	vlo	
Nickel [7440-02-0] ^	**2.63**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 12:48	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 12:48	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 12:48	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:32	VLO	
Vanadium [7440-62-2] ^	**3.56**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 12:48	vlo	
Zinc [7440-66-6] ^	**43.7**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 12:48	vlo	

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Description:	5503-SW9	**Lab Sample ID:**	C907926-02	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 10:20	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**16**		mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**88**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.14**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.14**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:36	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:27	AJB	
Phosphorus [7723-14-0] ^	**0.26**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:27	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.2**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 15:06	PEV	
Total Suspended Solids [ECL-0169] ^	**88**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 15:11	JOC	

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

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Description: 5503-SW11
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-03
Sampled: 07/08/09 12:10
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 07:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 07:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 07:01	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 07:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 07:01	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 07:01	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 07:01	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 07:01	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 07:01	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 07:01	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 07:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 07:01	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 07:01	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 07:01	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 07:01	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 07:01	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Toluene [108-88-3] ^	**8.2**		ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 07:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 07:01	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 07:01	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 07:01	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 07:01	JKG	

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Description:	5503-SW11	**Lab Sample ID:**	C907926-03	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 12:10	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 07:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*97 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 07:01*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 07:01*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 07:01*	*JKG*	

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Description: 5503-SW11
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-03
Sampled: 07/08/09 12:10
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	**2.43**	J	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:36	VLO	
Arsenic [7440-38-2] ^	**3.47**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 12:50	vlo	
Barium [7440-39-3] ^	**200**		ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 12:50	vlo	
Beryllium [7440-41-7] ^	**0.172**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 12:50	vlo	
Cadmium [7440-43-9] ^	**0.233**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 12:50	vlo	
Chromium [7440-47-3] ^	**7.73**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 12:50	vlo	QB-01
Cobalt [7440-48-4] ^	**14.7**		ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 12:50	vlo	
Copper [7440-50-8] ^	**4.01**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 12:50	vlo	J-01
Lead [7439-92-1] ^	**5.64**	J	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 12:50	vlo	
Nickel [7440-02-0] ^	**4.74**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 12:50	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 12:50	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 12:50	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:36	VLO	
Vanadium [7440-62-2] ^	**9.92**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 12:50	vlo	
Zinc [7440-66-6] ^	**37.4**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 12:50	vlo	

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Description:	5503-SW11	**Lab Sample ID:**	C907926-03	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 12:10	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**5.9**		mg/L	1	2.0	2.0	NE	SM 5210B	07/16/09 17:59	GPW	Q
Chemical Oxygen Demand [ECL-0035] ^	**72**		mg/L	1	3.1	10	NE	SM 5220D	07/16/09 14:35	GPW	
Nitrate as N [14797-55-8] ^	**0.12**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.12**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:36	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:28	AJB	
Phosphorus [7723-14-0] ^	**0.26**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:29	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.5**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 15:23	PEV	
Total Suspended Solids [ECL-0169] ^	**84**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 15:11	JOC	

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Description: 5503-SW12
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-04
Sampled: 07/08/09 11:45
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 07:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 07:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 07:31	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 07:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 07:31	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 07:31	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 07:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 07:31	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 07:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 07:31	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 07:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 07:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 07:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 07:31	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 07:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 07:31	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Toluene [108-88-3] ^	**2.8**		ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 07:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 07:31	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 07:31	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 07:31	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 07:31	JKG	

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Description:	5503-SW12	**Lab Sample ID:**	C907926-04	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 11:45	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 07:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 07:31*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 07:31*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 07:31*	*JKG*	

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Description: 5503-SW12
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-04
Sampled: 07/08/09 11:45
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	**0.970**	J	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:39	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 12:52	vlo	
Barium [7440-39-3] ^	**139**		ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 12:52	vlo	
Beryllium [7440-41-7] ^	**0.161**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 12:52	vlo	
Cadmium [7440-43-9] ^	**0.113**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 12:52	vlo	
Chromium [7440-47-3] ^	**6.86**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 12:52	vlo	J-01
Cobalt [7440-48-4] ^	**12.7**		ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 12:52	vlo	
Copper [7440-50-8] ^	**3.58**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 12:52	vlo	J-01
Lead [7439-92-1] ^	**5.71**	J	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 12:52	vlo	
Nickel [7440-02-0] ^	**3.57**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 12:52	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 12:52	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 12:52	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:39	VLO	
Vanadium [7440-62-2] ^	**8.67**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 12:52	vlo	
Zinc [7440-66-6] ^	**37.6**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 12:52	vlo	

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Description:	5503-SW12	**Lab Sample ID:**	C907926-04	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 11:45	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**13**		mg/L	1	2.0	2.0	NE	SM 5210B	07/16/09 17:59	GPW	Q
Chemical Oxygen Demand [ECL-0035] ^	**100**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**2.8**	J	mg/L	1	0.0056	1.0	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**2.8**	D	mg/L	10	0.21	1.0	NE	EPA 353.2	07/14/09 13:11	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:29	AJB	
Phosphorus [7723-14-0] ^	**0.49**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:30	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.1**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 15:40	PEV	
Total Suspended Solids [ECL-0169] ^	**190**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 15:11	JOC	

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Description: 5503-SW16
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-05
Sampled: 07/08/09 09:40
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 08:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 08:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 08:00	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 08:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 08:00	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 08:00	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 08:00	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 08:00	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 08:00	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 08:00	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 08:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 08:00	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 08:00	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 08:00	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 08:00	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 08:00	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 08:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 08:00	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 08:00	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 08:00	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 08:00	JKG	

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Description:	5503-SW16	**Lab Sample ID:**	C907926-05	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 09:40	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 08:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*97 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 08:00*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 08:00*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 08:00*	*JKG*	

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Description: 5503-SW16
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-05
Sampled: 07/08/09 09:40
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:43	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 12:22	vlo	
Barium [7440-39-3] ^	**48.9**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 12:22	vlo	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 12:22	vlo	
Cadmium [7440-43-9] ^	**0.0983**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 12:22	vlo	
Chromium [7440-47-3] ^	**3.58**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 12:22	vlo	J-01
Cobalt [7440-48-4] ^	**1.82**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 12:22	vlo	
Copper [7440-50-8] ^	**1.92**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 12:22	vlo	J-01
Lead [7439-92-1] ^	**2.75**	J	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 12:22	vlo	
Nickel [7440-02-0] ^	**1.46**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 12:22	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 12:22	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 12:22	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:43	VLO	
Vanadium [7440-62-2] ^	**3.91**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 12:22	vlo	
Zinc [7440-66-6] ^	**37.4**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 12:22	vlo	

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Description: 5503-SW16
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-05
Sampled: 07/08/09 09:40
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**37**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.034**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.034**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:38	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:30	AJB	
Phosphorus [7723-14-0] ^	**0.086**	J	mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:31	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.4**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 16:30	PEV	
Total Suspended Solids [ECL-0169] ^	**75**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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

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Description: 5503-SW17
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-06
Sampled: 07/08/09 09:20
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 08:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 08:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 08:29	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 08:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 08:29	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 08:29	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 08:29	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 08:29	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 08:29	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 08:29	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 08:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 08:29	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 08:29	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 08:29	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 08:29	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 08:29	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 08:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 08:29	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 08:29	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 08:29	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 08:29	JKG	

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Description:	5503-SW17	**Lab Sample ID:**	C907926-06	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 09:20	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 08:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*9G09004*	*EPA 8260B*	*07/10/09 08:29*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*68-117*	*9G09004*	*EPA 8260B*	*07/10/09 08:29*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*69-110*	*9G09004*	*EPA 8260B*	*07/10/09 08:29*	*JKG*	

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Description: 5503-SW17
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-06
Sampled: 07/08/09 09:20
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:46	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 13:02	vlo	
Barium [7440-39-3] ^	**28.7**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 13:02	vlo	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 13:02	vlo	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 13:02	vlo	
Chromium [7440-47-3] ^	**2.25**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 13:02	vlo	J-01
Cobalt [7440-48-4] ^	**0.654**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 13:02	vlo	
Copper [7440-50-8] ^	**2.13**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 13:02	vlo	J-01
Lead [7439-92-1] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 13:02	vlo	
Nickel [7440-02-0] ^	**1.26**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 13:02	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 13:02	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 13:02	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:46	VLO	
Vanadium [7440-62-2] ^	**1.82**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 13:02	vlo	
Zinc [7440-66-6] ^	**8.91**	J	ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 13:02	vlo	

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Description: 5503-SW17
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-06
Sampled: 07/08/09 09:20
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**16**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.64**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.65**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:39	PEV	
Nitrite as N [14797-65-0] ^	**0.0081**	J	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:31	AJB	
Phosphorus [7723-14-0] ^	**0.092**	J	mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:32	AJB	
Sulfate as SO4 [14808-79-8] ^	**4.1**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 16:46	PEV	
Total Suspended Solids [ECL-0169] ^	**38**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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

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Description: 5503-SW16D
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-07
Sampled: 07/08/09 09:50
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/10/09 23:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/10/09 23:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/10/09 23:34	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/10/09 23:34	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/10/09 23:34	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/10/09 23:34	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/10/09 23:34	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/10/09 23:34	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/10/09 23:34	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/10/09 23:34	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/10/09 23:34	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/10/09 23:34	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/10/09 23:34	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/10/09 23:34	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/10/09 23:34	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/10/09 23:34	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/10/09 23:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/10/09 23:34	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/10/09 23:34	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/10/09 23:34	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/10/09 23:34	JKG	

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Description:	5503-SW16D	**Lab Sample ID:**	C907926-07	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 09:50	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/10/09 23:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*9G10015*	*EPA 8260B*	*07/10/09 23:34*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G10015*	*EPA 8260B*	*07/10/09 23:34*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*69-110*	*9G10015*	*EPA 8260B*	*07/10/09 23:34*	*JKG*	

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Description: 5503-SW16D
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-07
Sampled: 07/08/09 09:50
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.680	U	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:50	VLO	
Arsenic [7440-38-2] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Barium [7440-39-3] ^	**45.4**	J	ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 13:04	vlo	
Beryllium [7440-41-7] ^	0.0750	U	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 13:04	vlo	
Cadmium [7440-43-9] ^	0.0870	U	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 13:04	vlo	
Chromium [7440-47-3] ^	**2.35**	JB	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Cobalt [7440-48-4] ^	**1.96**	J	ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Copper [7440-50-8] ^	**2.12**	JB	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Lead [7439-92-1] ^	**2.15**	J	ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Nickel [7440-02-0] ^	**1.34**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 13:04	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Silver [7440-22-4] ^	0.960	U	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 13:04	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:50	VLO	
Vanadium [7440-62-2] ^	**3.17**	J	ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 13:04	vlo	
Zinc [7440-66-6] ^	**29.1**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 13:04	vlo	

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Description: 5503-SW16D
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-07
Sampled: 07/08/09 09:50
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2.0	U	mg/L	1	2.0	2.0	NE	SM 5210B	07/14/09 13:45	GPW	
Chemical Oxygen Demand [ECL-0035] ^	**41**		mg/L	1	3.1	10	NE	SM 5220D	07/13/09 18:10	GPW	
Nitrate as N [14797-55-8] ^	**0.066**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.066**	J	mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:40	PEV	
Nitrite as N [14797-65-0] ^	0.0056	U	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:32	AJB	
Phosphorus [7723-14-0] ^	**0.080**	J	mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:35	AJB	
Sulfate as SO4 [14808-79-8] ^	**2.4**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 17:03	PEV	
Total Suspended Solids [ECL-0169] ^	**17**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 12:55	JOC	

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Description: 5503-SW12D
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-08
Sampled: 07/08/09 11:55
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/11/09 00:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/11/09 00:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/11/09 00:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/11/09 00:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/11/09 00:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/11/09 00:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/11/09 00:04	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/11/09 00:04	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/11/09 00:04	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/11/09 00:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/11/09 00:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/11/09 00:04	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/11/09 00:04	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/11/09 00:04	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/11/09 00:04	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/11/09 00:04	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Toluene [108-88-3] ^	**4.9**		ug/L	1	0.27	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/11/09 00:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/11/09 00:04	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/11/09 00:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/11/09 00:04	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/11/09 00:04	JKG	

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Description:	5503-SW12D	**Lab Sample ID:**	C907926-08	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 11:55	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/11/09 00:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*9G10015*	*EPA 8260B*	*07/11/09 00:04*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*92 %*	*68-117*	*9G10015*	*EPA 8260B*	*07/11/09 00:04*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G10015*	*EPA 8260B*	*07/11/09 00:04*	*JKG*	

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Description: 5503-SW12D
Matrix: Ground Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-08
Sampled: 07/08/09 11:55
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	**3.62**	J	ug/L	1	0.680	5.00	6	EPA 6020A	07/14/09 12:53	VLO	
Arsenic [7440-38-2] ^	**3.26**	J	ug/L	1	2.80	10.0	10	EPA 6010C	07/16/09 13:06	vlo	
Barium [7440-39-3] ^	**373**		ug/L	1	4.20	10.0	100	EPA 6010C	07/16/09 13:06	vlo	
Beryllium [7440-41-7] ^	**0.527**	J	ug/L	1	0.0750	1.00	1	EPA 6010C	07/16/09 13:06	vlo	
Cadmium [7440-43-9] ^	**0.437**	J	ug/L	1	0.0870	1.00	1	EPA 6010C	07/16/09 13:06	vlo	
Chromium [7440-47-3] ^	**23.6**	B	ug/L	1	0.710	10.0	10	EPA 6010C	07/16/09 13:06	vlo	QB-01
Cobalt [7440-48-4] ^	**36.3**		ug/L	1	0.580	10.0	10	EPA 6010C	07/16/09 13:06	vlo	
Copper [7440-50-8] ^	**15.5**	B	ug/L	1	0.810	10.0	10	EPA 6010C	07/16/09 13:06	vlo	QB-01
Lead [7439-92-1] ^	**11.9**		ug/L	1	1.60	10.0	10	EPA 6010C	07/16/09 13:06	vlo	
Nickel [7440-02-0] ^	**10.4**	J	ug/L	1	0.650	50.0	50	EPA 6010C	07/16/09 13:06	vlo	
Selenium [7782-49-2] ^	3.40	U	ug/L	1	3.40	10.0	10	EPA 6010C	07/16/09 13:06	vlo	
Silver [7440-22-4] ^	**1.05**	J	ug/L	1	0.960	10.0	10	EPA 6010C	07/16/09 13:06	vlo	
Thallium [7440-28-0] ^	0.0360	U	ug/L	1	0.0360	1.00	5.5	EPA 6020A	07/14/09 12:53	VLO	
Vanadium [7440-62-2] ^	**28.0**		ug/L	1	0.680	10.0	25	EPA 6010C	07/16/09 13:06	vlo	
Zinc [7440-66-6] ^	**80.6**		ug/L	1	3.40	20.0	10	EPA 6010C	07/16/09 13:06	vlo	

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Description:	5503-SW12D	**Lab Sample ID:**	C907926-08	**Received:**	07/09/09 09:45
Matrix:	Ground Water	**Sampled:**	07/08/09 11:55	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**23**		mg/L	1	2.0	2.0	NE	SM 5210B	07/16/09 17:59	GPW	Q
Chemical Oxygen Demand [ECL-0035] ^	**210**		mg/L	1	3.1	10	NE	SM 5220D	07/16/09 14:35	GPW	
Nitrate as N [14797-55-8] ^	**0.21**	J	mg/L	1	0.0056	0.10	10	EPA 353.2	07/15/09 09:53	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**0.22**		mg/L	1	0.021	0.10	NE	EPA 353.2	07/14/09 12:41	PEV	
Nitrite as N [14797-65-0] ^	**0.0060**	J	mg/L	1	0.0056	0.10	1	EPA 353.2	07/09/09 17:32	AJB	
Phosphorus [7723-14-0] ^	**0.89**		mg/L	1	0.050	0.10	NE	EPA 365.4	07/16/09 15:36	AJB	
Sulfate as SO4 [14808-79-8] ^	**16**	J	mg/L	1	0.078	5.0	250	EPA 300.0	07/10/09 17:20	PEV	
Total Suspended Solids [ECL-0169] ^	**220**		mg/L	1	1.0	1.0	NE	SM 2540D	07/15/09 15:11	JOC	

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Description: 5503-Field Blank
Matrix: Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-09
Sampled: 07/08/09 13:35
Sampled By: Julie Petersen

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/11/09 00:34	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/11/09 00:34	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/11/09 00:34	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/11/09 00:34	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/11/09 00:34	JKG	
Acetone [67-64-1] ^	**42**	J	ug/L	1	1.5	5.0	100	EPA 8260B	07/11/09 00:34	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/11/09 00:34	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/11/09 00:34	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/11/09 00:34	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/11/09 00:34	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/11/09 00:34	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/11/09 00:34	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/11/09 00:34	JKG	
Chloroform [67-66-3] ^	**4.6**	J	ug/L	1	0.20	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/11/09 00:34	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/11/09 00:34	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/11/09 00:34	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Styrene [100-42-5] ^	**0.76**	J	ug/L	1	0.26	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Toluene [108-88-3] ^	**0.75**	J	ug/L	1	0.27	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/11/09 00:34	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/11/09 00:34	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/11/09 00:34	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/11/09 00:34	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/11/09 00:34	JKG	

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Description:	5503-Field Blank	**Lab Sample ID:**	C907926-09	**Received:**	07/09/09 09:45
Matrix:	Water	**Sampled:**	07/08/09 13:35	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**Sampled By:**	Julie Petersen		

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/11/09 00:34	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*9G10015*	*EPA 8260B*	*07/11/09 00:34*	*JKG*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*9G10015*	*EPA 8260B*	*07/11/09 00:34*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G10015*	*EPA 8260B*	*07/11/09 00:34*	*JKG*	

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Description: 5503-Trip Blank
Matrix: Water
Project: Lincoln County Leachate Assessment

Lab Sample ID: C907926-10
Sampled: 07/08/09 09:20
Sampled By: ENCO

Received: 07/09/09 09:45
Work Order: C907926

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	07/11/09 01:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	07/11/09 01:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	07/11/09 01:03	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	07/11/09 01:03	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	07/11/09 01:03	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	07/11/09 01:03	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	07/11/09 01:03	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	07/11/09 01:03	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	07/11/09 01:03	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	07/11/09 01:03	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	07/11/09 01:03	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	07/11/09 01:03	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	07/11/09 01:03	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	07/11/09 01:03	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	07/11/09 01:03	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	07/11/09 01:03	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	07/11/09 01:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	07/11/09 01:03	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	07/11/09 01:03	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	07/11/09 01:03	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	07/11/09 01:03	JKG	

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Description:	5503-Trip Blank	**Lab Sample ID:**	C907926-10	**Received:**	07/09/09 09:45
Matrix:	Water	**Sampled:**	07/08/09 09:20	**Work Order:**	C907926
Project:	Lincoln County Leachate Assessment	**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
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	07/11/09 01:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*9G10015*	*EPA 8260B*	*07/11/09 01:03*	*JKG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*9G10015*	*EPA 8260B*	*07/11/09 01:03*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*69-110*	*9G10015*	*EPA 8260B*	*07/11/09 01:03*	*JKG*	

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 9G09004 - EPA 5030B_MS

Blank (9G09004-BLK1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 00:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G09004 - EPA 5030B_MS

Blank (9G09004-BLK1) Continued Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 00:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*69-110*			

LCS (9G09004-BS1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 00:40

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		89	75-133			
Benzene	17		1.0	ug/L	20.0		84	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	17		1.0	ug/L	20.0		87	71-118			
Trichloroethene	19		1.0	ug/L	20.0		94	75-115			

Matrix Spike (9G09004-MS1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 01:09

Source: C907714-04

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	0.24 U	100	75-133			
Benzene	19		1.0	ug/L	20.0	0.20 U	96	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	83-117			
Toluene	20		1.0	ug/L	20.0	0.27 U	100	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	104	75-115			

Matrix Spike Dup (9G09004-MSD1) Prepared: 07/09/2009 08:31 Analyzed: 07/10/2009 01:38

Source: C907714-04

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	0.24 U	108	75-133	7	20	
Benzene	21		1.0	ug/L	20.0	0.20 U	104	81-134	7	17	
Chlorobenzene	22		1.0	ug/L	20.0	0.27 U	112	83-117	6	16	
Toluene	22		1.0	ug/L	20.0	0.27 U	109	71-118	9	17	
Trichloroethene	22		1.0	ug/L	20.0	0.38 U	110	75-115	5	18	

Batch 9G10015 - EPA 5030B_MS

Blank (9G10015-BLK1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G10015 - EPA 5030B_MS

Blank (9G10015-BLK1) Continued Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*89*	*68-117*			
Surrogate: Toluene-d8	*45*			*ug/L*	*50.0*		*90*	*69-110*			

LCS (9G10015-BS1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:38

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		96	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			
Toluene	19		1.0	ug/L	20.0		93	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 9G10015 - EPA 5030B_MS

LCS (9G10015-BS1) Continued Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 16:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		97	75-115			

Matrix Spike (9G10015-MS1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 17:08

Source: C904906-03

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	0.24 U	114	75-133			
Benzene	21		1.0	ug/L	20.0	0.20 U	105	81-134			
Chlorobenzene	24		1.0	ug/L	20.0	0.27 U	118	83-117			QM-07
Toluene	22		1.0	ug/L	20.0	0.27 U	112	71-118			
Trichloroethene	24		1.0	ug/L	20.0	0.38 U	118	75-115			QM-07

Matrix Spike Dup (9G10015-MSD1) Prepared: 07/10/2009 10:19 Analyzed: 07/10/2009 17:38

Source: C904906-03

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	0.24 U	103	75-133	10	20	
Benzene	19		1.0	ug/L	20.0	0.20 U	97	81-134	8	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	83-117	10	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	102	71-118	9	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115	14	18	

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

Batch 9G09020 - EPA 3005A

Blank (9G09020-BLK1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.680	U	5.00	ug/L							
Thallium	0.0360	U	1.00	ug/L							

LCS (9G09020-BS1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	256		5.00	ug/L	250		103	80-120			
Thallium	254		1.00	ug/L	250		101	80-120			

Matrix Spike (9G09020-MS1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:50

Source: C907713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	269		5.00	ug/L	250	0.680 U	108	75-125			
Thallium	261		1.00	ug/L	250	0.0360 U	104	75-125			

Matrix Spike Dup (9G09020-MSD1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:53

Source: C907713-04

QUALITY CONTROL

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

Batch 9G09020 - EPA 3005A

Matrix Spike Dup (9G09020-MSD1) Continued Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:53

Source: C907713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	259		5.00	ug/L	250	0.680 U	104	75-125	4	20	
Thallium	250		1.00	ug/L	250	0.0360 U	100	75-125	4	20	

Post Spike (9G09020-PS1) Prepared: 07/09/2009 10:42 Analyzed: 07/14/2009 11:57

Source: C907713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.1		0.500	ug/L	25.0	0.0310	84	80-120			
Thallium	20.4		0.100	ug/L	25.0	-0.129	82	80-120			

Batch 9G10009 - EPA 3005A

Blank (9G10009-BLK1) Prepared: 07/10/2009 09:23 Analyzed: 07/16/2009 12:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	4.20	U	10.0	ug/L							
Beryllium	0.0750	U	1.00	ug/L							
Cadmium	0.0870	U	1.00	ug/L							
Chromium	**0.759**	**J**	10.0	ug/L							
Cobalt	0.580	U	10.0	ug/L							
Copper	**1.13**	**J**	10.0	ug/L							
Lead	1.60	U	10.0	ug/L							
Nickel	0.650	U	50.0	ug/L							
Selenium	3.40	U	10.0	ug/L							
Silver	0.960	U	10.0	ug/L							
Vanadium	0.680	U	10.0	ug/L							
Zinc	3.40	U	20.0	ug/L							

LCS (9G10009-BS1) Prepared: 07/10/2009 09:23 Analyzed: 07/16/2009 12:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1120		10.0	ug/L	1000		112	80-120			
Barium	1090		10.0	ug/L	1000		109	80-120			
Beryllium	555		1.00	ug/L	500		111	80-120			
Cadmium	553		1.00	ug/L	500		111	80-120			
Chromium	1110	B	10.0	ug/L	1000		111	80-120			
Cobalt	1090		10.0	ug/L	1000		109	80-120			
Copper	549	B	10.0	ug/L	500		110	80-120			
Lead	1110		10.0	ug/L	1000		111	80-120			
Nickel	1110		50.0	ug/L	1000		111	80-120			
Selenium	1130		10.0	ug/L	1000		113	80-120			
Silver	111		10.0	ug/L	100		111	80-120			
Vanadium	557		10.0	ug/L	500		111	80-120			
Zinc	1120		20.0	ug/L	1000		112	80-120			

QUALITY CONTROL

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

Batch 9G10009 - EPA 3005A

Matrix Spike (9G10009-MS1) Prepared: 07/10/2009 09:23 Analyzed: 07/16/2009 12:31

Source: C907926-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1150		10.0	ug/L	1000	2.80 U	115	75-125			
Barium	1190		10.0	ug/L	1000	48.9	114	75-125			
Beryllium	573		1.00	ug/L	500	0.0750 U	115	75-125			
Cadmium	576		1.00	ug/L	500	0.0983	115	75-125			
Chromium	1150	B	10.0	ug/L	1000	3.58	115	75-125			
Cobalt	1140		10.0	ug/L	1000	1.82	114	75-125			
Copper	573	B	10.0	ug/L	500	1.92	114	75-125			
Lead	1140		10.0	ug/L	1000	2.75	114	75-125			
Nickel	1160		50.0	ug/L	1000	1.46	116	75-125			
Selenium	1160		10.0	ug/L	1000	3.40 U	116	75-125			
Silver	116		10.0	ug/L	100	0.960 U	116	75-125			
Vanadium	585		10.0	ug/L	500	3.91	116	75-125			
Zinc	1200		20.0	ug/L	1000	37.4	116	75-125			

Matrix Spike Dup (9G10009-MSD1) Prepared: 07/10/2009 09:23 Analyzed: 07/16/2009 12:33

Source: C907926-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1120		10.0	ug/L	1000	2.80 U	112	75-125	2	20	
Barium	1160		10.0	ug/L	1000	48.9	111	75-125	3	20	
Beryllium	559		1.00	ug/L	500	0.0750 U	112	75-125	2	20	
Cadmium	558		1.00	ug/L	500	0.0983	112	75-125	3	20	
Chromium	1120	B	10.0	ug/L	1000	3.58	112	75-125	3	20	
Cobalt	1110		10.0	ug/L	1000	1.82	111	75-125	3	20	
Copper	557	B	10.0	ug/L	500	1.92	111	75-125	3	20	
Lead	1120		10.0	ug/L	1000	2.75	111	75-125	2	20	
Nickel	1120		50.0	ug/L	1000	1.46	112	75-125	3	20	
Selenium	1150		10.0	ug/L	1000	3.40 U	115	75-125	1	20	
Silver	113		10.0	ug/L	100	0.960 U	113	75-125	3	20	
Vanadium	568		10.0	ug/L	500	3.91	113	75-125	3	20	
Zinc	1170		20.0	ug/L	1000	37.4	113	75-125	3	20	

Post Spike (9G10009-PS1) Prepared: 07/10/2009 09:23 Analyzed: 07/16/2009 12:36

Source: C907926-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.03		0.0100	mg/L	1.00	-0.00117	103	80-120			
Barium	1.06		0.0100	mg/L	1.00	0.0489	101	80-120			
Beryllium	0.510		0.00100	mg/L	0.500	6.38E-5	102	80-120			
Cadmium	0.509		0.00100	mg/L	0.500	9.83E-5	102	80-120			
Chromium	1.02	B	0.0100	mg/L	1.00	0.00358	102	80-120			
Cobalt	1.01		0.0100	mg/L	1.00	0.00182	101	80-120			
Copper	0.507	B	0.0100	mg/L	0.500	0.00192	101	80-120			
Lead	1.03		0.0100	mg/L	1.00	0.00275	102	80-120			
Nickel	1.03		0.0500	mg/L	1.00	0.00146	102	80-120			
Selenium	1.04		0.0100	mg/L	1.00	-0.00296	104	80-120			
Silver	0.110		0.0100	mg/L	0.100	0.000835	109	80-120			

QUALITY CONTROL

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

Batch 9G10009 - EPA 3005A

Post Spike (9G10009-PS1) Continued Prepared: 07/10/2009 09:23 Analyzed: 07/16/2009 12:36

Source: C907926-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vanadium	0.519		0.0100	mg/L	0.500	0.00391	103	80-120			
Zinc	1.07		0.0200	mg/L	1.00	0.0374	103	80-120			

Classical Chemistry Parameters - Quality Control

Batch 9G09015 - NO PREP

Blank (9G09015-BLK1) Prepared: 07/09/2009 11:09 Analyzed: 07/14/2009 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (9G09015-BS1) Prepared: 07/09/2009 11:09 Analyzed: 07/14/2009 13:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		97	85-115			

Duplicate (9G09015-DUP1) Prepared: 07/09/2009 11:09 Analyzed: 07/14/2009 13:45

Source: C907645-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	3.0		2.0	mg/L		3.0			2	25	

Batch 9G09031 - NO PREP

Blank (9G09031-BLK1) Prepared: 07/09/2009 14:16 Analyzed: 07/09/2009 17:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.0056	U	0.10	mg/L							

LCS (9G09031-BS1) Prepared: 07/09/2009 14:16 Analyzed: 07/09/2009 17:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97		0.10	mg/L	1.00		97	80-120			

Matrix Spike (9G09031-MS1) Prepared: 07/09/2009 14:16 Analyzed: 07/09/2009 17:12

Source: C907643-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.025	98	80-120			

Matrix Spike Dup (9G09031-MSD1) Prepared: 07/09/2009 14:16 Analyzed: 07/09/2009 17:14

Source: C907643-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.025	100	80-120	2	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G09031 - NO PREP

Batch 9G10002 - NO PREP

Blank (9G10002-BLK1) Prepared: 07/10/2009 09:54 Analyzed: 07/16/2009 17:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							Q

LCS (9G10002-BS1) Prepared: 07/10/2009 09:54 Analyzed: 07/16/2009 17:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	210		2.0	mg/L	198		104	85-115			Q

Duplicate (9G10002-DUP1) Prepared: 07/10/2009 09:54 Analyzed: 07/16/2009 17:59

Source: C907646-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	Q

Batch 9G10026 - NO PREP

Blank (9G10026-BLK1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.078	U	5.0	mg/L							

LCS (9G10026-BS1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		97	90-110			

Matrix Spike (9G10026-MS1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:36

Source: C907713-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	50		5.0	mg/L	50.0	2.3	96	80-120			

Matrix Spike Dup (9G10026-MSD1) Prepared: 07/10/2009 10:26 Analyzed: 07/10/2009 12:53

Source: C907713-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	51		5.0	mg/L	50.0	2.3	98	80-120	2	15	

Batch 9G13015 - NO PREP

Blank (9G13015-BLK1) Prepared: 07/13/2009 09:51 Analyzed: 07/14/2009 11:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.021	U	0.10	mg/L							

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G13015 - NO PREP

LCS (9G13015-BS1) Prepared: 07/13/2009 09:51 Analyzed: 07/14/2009 11:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		104	80-120			

Matrix Spike (9G13015-MS1) Prepared: 07/13/2009 09:51 Analyzed: 07/14/2009 12:04

Source: C906037-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.5		0.10	mg/L	1.28	0.058	110	80-120			

Matrix Spike Dup (9G13015-MSD1) Prepared: 07/13/2009 09:51 Analyzed: 07/14/2009 12:06

Source: C906037-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.5		0.10	mg/L	1.28	0.058	111	80-120	0.1	25	

Batch 9G13031 - NO PREP

Blank (9G13031-BLK1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9G13031-BS1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500		99	90-110			

Matrix Spike (9G13031-MS1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Source: C907508-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	39	100	90-110			

Matrix Spike Dup (9G13031-MSD1) Prepared: 07/13/2009 14:50 Analyzed: 07/13/2009 18:10

Source: C907508-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	39	100	90-110	0	10	

Batch 9G14003 - NO PREP

Blank (9G14003-BLK1) Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (9G14003-BS1) Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G14003 - NO PREP

LCS (9G14003-BS1) Continued Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	84		1.0	mg/L	80.0		105	82-119			

Duplicate (9G14003-DUP1) Prepared: 07/14/2009 10:31 Analyzed: 07/15/2009 12:55

Source: C907926-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	18		1.0	mg/L		17			5	25	

Batch 9G14005 - NO PREP

Blank (9G14005-BLK1) Prepared: 07/14/2009 15:26 Analyzed: 07/15/2009 15:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (9G14005-BS1) Prepared: 07/14/2009 15:26 Analyzed: 07/15/2009 15:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	87		1.0	mg/L	80.0		109	82-119			

Duplicate (9G14005-DUP1) Prepared: 07/14/2009 15:26 Analyzed: 07/15/2009 15:11

Source: C907949-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	10		1.0	mg/L		12			18	25	

Batch 9G15018 - Same

Blank (9G15018-BLK1) Prepared: 07/15/2009 13:32 Analyzed: 07/16/2009 15:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (9G15018-BS1) Prepared: 07/15/2009 13:32 Analyzed: 07/16/2009 15:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.5		0.10	mg/L	1.60		93	80-120			

Matrix Spike (9G15018-MS1) Prepared: 07/15/2009 13:32 Analyzed: 07/16/2009 15:22

Source: C907926-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60	0.13	97	80-120			

Matrix Spike Dup (9G15018-MSD1) Prepared: 07/15/2009 13:32 Analyzed: 07/16/2009 15:23

Source: C907926-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 9G15018 - Same

Matrix Spike Dup (9G15018-MSD1) Continued Prepared: 07/15/2009 13:32 Analyzed: 07/16/2009 15:23

Source: C907926-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60	0.13	97	80-120	0.6	25	

Batch 9G16011 - NO PREP

Blank (9G16011-BLK1) Prepared: 07/16/2009 11:20 Analyzed: 07/16/2009 14:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	3.1	U	10	mg/L							

LCS (9G16011-BS1) Prepared: 07/16/2009 11:20 Analyzed: 07/16/2009 14:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	530		10	mg/L	500		106	90-110			

Matrix Spike (9G16011-MS1) Prepared: 07/16/2009 11:20 Analyzed: 07/16/2009 14:35

Source: C908166-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	600		10	mg/L	500	95	102	90-110			

Matrix Spike Dup (9G16011-MSD1) Prepared: 07/16/2009 11:20 Analyzed: 07/16/2009 14:35

Source: C908166-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	600		10	mg/L	500	95	100	90-110	1	10	

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.
Q	Analysis performed outside of method - specified holding time.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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 211 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 1 of 2

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~ 49780
Tel: (704) 523-4726 Fax: (704) 525-1953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C907713~~

Preservation (See Codes) (Combine as necessary)

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	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	Nitrite as N 353.2	NOX 353.2,P	Sulfate 300	TSS SM2540D		Sample Comments
	DISCHARGE	7/7/09	1130	G	GW	8	X	X	X	X	X	X	X	X	X		Already received
	SW-3	7/7/09	1245	G	GW	8	X	X	X	X	X	X	X	X	X		7-8-09
	SW-6	7/7/09	1115	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-7	7/7/09	1010	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-8	7/8/09	1030	G	GW	8	X	X	X	X	X	X	X	X	X		C907926
	SW-9	7/8/09	1020	G	GW	8	X	X	X	X	X	X	X	X	X		
	~~SW-10~~ DRY				~~GW~~	8	X	X	X	X	X	X	X	X	X		
	SW-11	7/8/09	1210	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-12	7/8/09	1145	G	GW	8	X	X	X	X	X	X	X	X	X		
	~~SW-13~~ DRY				~~GW~~	~~8~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
	SW-14	7/7/09	1410	G	GW	8	X	X	X	X	X	X	X	X	X		Received 7-8-09
	SW-15	7/7/09	1445		GW	8	X	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
JK	7.2.9	[signature]	7/8/09 1630	Briana Gregory	7-9-09 9:45
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments: C-491 1.3°C; C-507 3.6°C

Cooler #'s & Temps on Receipt: C-477 1.9°C C-478 C-574 BLUE 3.2°C

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil 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 CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
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4810 Executive Park Court, Suite 211
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 2 of 2

Client Name: S&ME, Inc. (SM002)	Project Number: 1356-09-006
Address: 9751 Southern Pine Blvd.	Project Name/Desc: Lincoln County Leachate Assessment
City/ST/Zip: Charlotte, NC 28273	PO # / Billing Info: ~~47789~~ 49780
Tel: (704) 523-4726 / Fax: (704) 525-3953	Reporting Contact: Julie Petersen
Sampler(s) Name, Affiliation (Print): Julie Petersen S+ME	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due __/__/__

Lab Workorder: ~~C907713~~

Preservation (See Codes) (Combine as necessary)

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	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	Nitrite as N 353.2	NOX 353.2,P	Sulfate 300	TSS SM2540D		Sample Comments
	SW-16	7/8/09	0940	G	GW	8	X	X	X	X	X	X	X	X	X		C907926
	SW-17	7/8/09	0920	G	GW	8	X	X	X	X	X	X	X	X	X		↓
	SW-16D	7/8/09	0950	G	GW	8	X	X	X	X	X	X	X	X	X		
	SW-12D	7/8/09	1155	G	GW	8	X	X	X	X	X	X	X	X	X		
	~~SW~~				~~GW~~	~~8~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
	Equipment Blank A	7/7/09	910	G	WA	3	X										Received 7-8-09
	Field Blank	7/8/09	1335	G	WA	3	X										C907926
	Trip Blank	7/8/09			WA	2	X										↓

<-- Total # of Containers

Sample Kit Prepared By: JK	Date/Time: 7-2-09	Relinquished By: [signature]	Date/Time: 7/8/09 16:30	Received By: Briana Gregory	Date/Time: 7-9-09 9:45
Comments: C-491 1.3°C; C-507 3.6°C		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-477 1.9°C C-483 C-576 Blue 3.2°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil 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

Statistical Analysis

Dixon's Text for Outliers (Metals Only)

Lowland Soil Samples
Sediment Basin Soil Samples
Lowland Surface Water Samples

Sediment Trap Soil Samples

Dixon's Test for Outliers

Parameter: Antimony

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.0478589	0.0159686	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	ND<240 U	FALSE
	7/7/2009	1600 J	FALSE
Soil-11	7/7/2009	ND<334 U	FALSE
Soil-12	7/7/2009	2420	FALSE
Soil-13	7/8/2009	4060	FALSE
Soil-13D	7/8/2009	4250	FALSE
Soil-14	7/8/2009	4060	FALSE
Soil-8	7/7/2009	1210 J	FALSE
Soil-3	1/23/2009	ND<280 U	FALSE
Soil-9 1ft	7/8/2009	1040 J	FALSE
Soil-9 1ft D	7/8/2009	1730	FALSE
Soil-9 2ft	7/8/2009	813 J	FALSE
Soil-9 3ft	7/8/2009	ND<301 U	FALSE

Dixon's Test for Outliers

Parameter: Arsenic

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.160183	0.209302	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	4000	FALSE
	7/7/2009	4920	FALSE
Soil-11	7/7/2009	4770	FALSE
Soil-12	7/7/2009	4590	FALSE
Soil-13	7/8/2009	5070	FALSE
Soil-13D	7/8/2009	5030	FALSE
Soil-14	7/8/2009	4840	FALSE
Soil-8	7/7/2009	2200	FALSE
Soil-3	1/23/2009	7200	FALSE
Soil-9 1ft	7/8/2009	11700	FALSE
Soil-9 1ft D	7/8/2009	10800	FALSE
Soil-9 2ft	7/8/2009	10300	FALSE
Soil-9 3ft	7/8/2009	2960	FALSE

Dixon's Test for Outliers

Parameter: Barium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.321375	0.176707	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	52000	FALSE
	7/7/2009	114000	FALSE
Soil-11	7/7/2009	113000	FALSE
Soil-12	7/7/2009	118000	FALSE
Soil-13	7/8/2009	170000	FALSE
Soil-13D	7/8/2009	153000	FALSE
Soil-14	7/8/2009	127000	FALSE
Soil-8	7/7/2009	36200	FALSE
Soil-3	1/23/2009	110000	FALSE
Soil-9 1ft	7/8/2009	54300	FALSE
Soil-9 1ft D	7/8/2009	75400	FALSE
Soil-9 2ft	7/8/2009	50500	FALSE
Soil-9 3ft	7/8/2009	28500	FALSE

Dixon's Test for Outliers

Parameter: Beryllium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.150971	0.207709	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	660	FALSE
	7/7/2009	1310	FALSE
Soil-11	7/7/2009	888	FALSE
Soil-12	7/7/2009	1340	FALSE
Soil-13	7/8/2009	1710	FALSE
Soil-13D	7/8/2009	1710	FALSE
Soil-14	7/8/2009	1500	FALSE
Soil-8	7/7/2009	529	FALSE
Soil-3	1/23/2009	1600	FALSE
Soil-9 1ft	7/8/2009	1670	FALSE
Soil-9 1ft D	7/8/2009	1920	FALSE
Soil-9 2ft	7/8/2009	1770	FALSE
Soil-9 3ft	7/8/2009	369	FALSE

Dixon's Test for Outliers

Parameter: Cadmium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.474183	0.173333	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	120 J	FALSE
	7/7/2009	151	FALSE
Soil-11	7/7/2009	184	FALSE
Soil-12	7/7/2009	297	FALSE
Soil-13	7/8/2009	492	FALSE
Soil-13D	7/8/2009	522	FALSE
Soil-14	7/8/2009	262	FALSE
Soil-8	7/7/2009	47.5 J	FALSE
Soil-3	1/23/2009	190	FALSE
Soil-9 1ft	7/8/2009	222	FALSE
Soil-9 1ft D	7/8/2009	221	FALSE
Soil-9 2ft	7/8/2009	191	FALSE
Soil-9 3ft	7/8/2009	42 J	FALSE

Dixon's Test for Outliers

Parameter: Chromium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.153257	0.0757282	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	39000	FALSE
	7/7/2009	41800 B	FALSE
Soil-11	7/7/2009	28100 B	FALSE
Soil-12	7/7/2009	57000 B	FALSE
Soil-13	7/8/2009	73000 B	FALSE
Soil-13D	7/8/2009	75300 B	FALSE
Soil-14	7/8/2009	67300 B	FALSE
Soil-8	7/7/2009	36200 B	FALSE
Soil-3	1/23/2009	26000	FALSE
Soil-9 1ft	7/8/2009	23100 B	FALSE
Soil-9 1ft D	7/8/2009	32900 B	FALSE
Soil-9 2ft	7/8/2009	25400 B	FALSE
Soil-9 3ft	7/8/2009	21500 B	FALSE

Dixon's Test for Outliers

Parameter: Cobalt

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.503817	0.0664273	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	5400	FALSE
	7/7/2009	7610	FALSE
Soil-11	7/7/2009	5600	FALSE
Soil-12	7/7/2009	10600	FALSE
Soil-13	7/8/2009	11800	FALSE
Soil-13D	7/8/2009	11600	FALSE
Soil-14	7/8/2009	10200	FALSE
Soil-8	7/7/2009	4490	FALSE
Soil-3	1/23/2009	15000	FALSE
Soil-9 1ft	7/8/2009	31600	FALSE
Soil-9 1ft D	7/8/2009	21200	FALSE
Soil-9 2ft	7/8/2009	18400	FALSE
Soil-9 3ft	7/8/2009	7070	FALSE

Dixon's Test for Outliers

Parameter: Copper

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.120482	0.257593	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	11000	FALSE
	7/7/2009	15000 B	FALSE
Soil-11	7/7/2009	12700 B	FALSE
Soil-12	7/7/2009	18400 B	FALSE
Soil-13	7/8/2009	22500 B	FALSE
Soil-13D	7/8/2009	23100 B	FALSE
Soil-14	7/8/2009	20800 B	FALSE
Soil-8	7/7/2009	13100 B	FALSE
Soil-3	1/23/2009	22000	FALSE
Soil-9 1ft	7/8/2009	25900 B	FALSE
Soil-9 1ft D	7/8/2009	25600 B	FALSE
Soil-9 2ft	7/8/2009	27600 B	FALSE
Soil-9 3ft	7/8/2009	8120 B	FALSE

Dixon's Test for Outliers

Parameter: Lead

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.175258	0.45614	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	21000	FALSE
	7/7/2009	28000	FALSE
Soil-11	7/7/2009	24600	FALSE
Soil-12	7/7/2009	23500	FALSE
Soil-13	7/8/2009	26300	FALSE
Soil-13D	7/8/2009	26900	FALSE
Soil-14	7/8/2009	25000	FALSE
Soil-8	7/7/2009	18300	FALSE
Soil-3	1/23/2009	22000	FALSE
Soil-9 1ft	7/8/2009	22100	FALSE
Soil-9 1ft D	7/8/2009	21200	FALSE
Soil-9 2ft	7/8/2009	20700	FALSE
Soil-9 3ft	7/8/2009	15500	FALSE

Dixon's Test for Outliers

Parameter: Nickel

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.0252685	0.311076	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	15000	FALSE
	7/7/2009	13000	FALSE
Soil-11	7/7/2009	8070	FALSE
Soil-12	7/7/2009	16400	FALSE
Soil-13	7/8/2009	23600	FALSE
Soil-13D	7/8/2009	23400	FALSE
Soil-14	7/8/2009	19600	FALSE
Soil-8	7/7/2009	10600	FALSE
Soil-3	1/23/2009	18000	FALSE
Soil-9 1ft	7/8/2009	23900	FALSE
Soil-9 1ft D	7/8/2009	23500	FALSE
Soil-9 2ft	7/8/2009	18100	FALSE
Soil-9 3ft	7/8/2009	4730	FALSE

Dixon's Test for Outliers

Parameter: Silver

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.715044	0.114607	0.521	345
2	0.569325	0.115909	0.546	144
3	0.664596	0.239437	0.576	143
4	0.230769	0.217391	0.477	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	ND<55 U	FALSE
	7/7/2009	345 J	TRUE
Soil-11	7/7/2009	143 J	TRUE
Soil-12	7/7/2009	ND<85.9 U	FALSE
Soil-13	7/8/2009	144 J	TRUE
Soil-13D	7/8/2009	ND<89.5 U	FALSE
Soil-14	7/8/2009	97.6 J	FALSE
Soil-8	7/7/2009	ND<67.3 U	FALSE
Soil-3	1/23/2009	ND<67 U	FALSE
Soil-9 1ft	7/8/2009	ND<65.2 U	FALSE
Soil-9 1ft D	7/8/2009	ND<66.4 U	FALSE
Soil-9 2ft	7/8/2009	ND<73.4 U	FALSE
Soil-9 3ft	7/8/2009	ND<62.5 U	FALSE

Dixon's Test for Outliers

Parameter: Vanadium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.19407	0.284232	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	57000	FALSE
	7/7/2009	68200	FALSE
Soil-11	7/7/2009	54800	FALSE
Soil-12	7/7/2009	76300	FALSE
Soil-13	7/8/2009	88200	FALSE
Soil-13D	7/8/2009	90200	FALSE
Soil-14	7/8/2009	83000	FALSE
Soil-8	7/7/2009	57200	FALSE
Soil-3	1/23/2009	69000	FALSE
Soil-9 1ft	7/8/2009	53100	FALSE
Soil-9 1ft D	7/8/2009	56800	FALSE
Soil-9 2ft	7/8/2009	53700	FALSE
Soil-9 3ft	/8/2009	40000	FALSE

Dixon's Test for Outliers

Parameter: Zinc

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 13 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.0818815	0.209139	0.521	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	27000	FALSE
	7/7/2009	35500	FALSE
Soil-11	7/7/2009	31900	FALSE
Soil-12	7/7/2009	46100	FALSE
Soil-13	7/8/2009	76400	FALSE
Soil-13D	7/8/2009	71700	FALSE
Soil-14	7/8/2009	55600	FALSE
Soil-8	7/7/2009	19000	FALSE
Soil-3	1/23/2009	72000	FALSE
Soil-9 1ft	7/8/2009	53700	FALSE
Soil-9 1ft D	7/8/2009	56100	FALSE
Soil-9 2ft	7/8/2009	54400	FALSE
Soil-9 3ft	7/8/2009	15100	FALSE

Lowland Area Soil Samples

Dixon's Test for Outliers

Parameter: Antimony

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.422727	0.00522193	0.507	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	ND<240 U	FALSE
	7/7/2009	1600 J	FALSE
Soil-11	7/7/2009	ND<334 U	FALSE
Soil-12	7/7/2009	2420	FALSE
Soil-13	7/8/2009	4060	FALSE
Soil-13D	7/8/2009	4250	FALSE
Soil-14	7/8/2009	4060	FALSE
Soil-1	1/23/2009	350 J	FALSE
Soil-2	1/23/2009	230 J	FALSE
Soil-4	1/23/2009	ND<290 U	FALSE
Soil-5	1/23/2009	ND<250 U	FALSE
Soil-6	1/23/2009	ND<380 U	FALSE
Soil-10	7/7/2009	685 J	FALSE
Soil-15	7/7/2009	6850	FALSE
Soil-16	7/7/2009	2880 J	FALSE
Soil-17	7/8/2009	1810 J	FALSE

Dixon's Test for Outliers

Parameter: Arsenic

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.665392	0.204545	0.507	9480
2	0.652015	0.321429	0.525	6980
3	0.531429	0.354331	0.546	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	4000	FALSE
	7/7/2009	4920	FALSE
Soil-11	7/7/2009	4770	FALSE
Soil-12	7/7/2009	4590	FALSE
Soil-13	7/8/2009	5070	FALSE
Soil-13D	7/8/2009	5030	FALSE
Soil-14	7/8/2009	4840	FALSE
Soil-1	1/23/2009	4400	FALSE
Soil-2	1/23/2009	3800	FALSE
Soil-4	1/23/2009	4800	FALSE
Soil-5	1/23/2009	5200	FALSE
Soil-6	1/23/2009	6000	FALSE
Soil-10	7/7/2009	6980	TRUE
Soil-15	7/7/2009	9480	TRUE
Soil-16	7/7/2009	4250	FALSE
Soil-17	7/8/2009	4420	FALSE

Dixon's Test for Outliers

Parameter: Barium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.502463	0.114035	0.507	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	52000	FALSE
	7/7/2009	114000	FALSE
Soil-11	7/7/2009	113000	FALSE
Soil-12	7/7/2009	118000	FALSE
Soil-13	7/8/2009	170000	FALSE
Soil-13D	7/8/2009	153000	FALSE
Soil-14	7/8/2009	127000	FALSE
Soil-1	1/23/2009	39000	FALSE
Soil-2	1/23/2009	70000	FALSE
Soil-4	1/23/2009	100000	FALSE
Soil-5	1/23/2009	93000	FALSE
Soil-6	1/23/2009	110000	FALSE
Soil-10	7/7/2009	51700	FALSE
Soil-15	7/7/2009	255000	FALSE
Soil-16	7/7/2009	149000	FALSE
Soil-17	7/8/2009	99300	FALSE

Dixon's Test for Outliers

Parameter: Beryllium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.60177	0.174312	0.507	3070
2	0.233333	0.215909	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	660	FALSE
	7/7/2009	1310	FALSE
Soil-11	7/7/2009	888	FALSE
Soil-12	7/7/2009	1340	FALSE
Soil-13	7/8/2009	1710	FALSE
Soil-13D	7/8/2009	1710	FALSE
Soil-14	7/8/2009	1500	FALSE
Soil-1	1/23/2009	620	FALSE
Soil-2	1/23/2009	950	FALSE
Soil-4	1/23/2009	1000	FALSE
Soil-5	1/23/2009	810	FALSE
Soil-6	1/23/2009	1500	FALSE
Soil-10	7/7/2009	1210	FALSE
Soil-15	7/7/2009	3070	TRUE
Soil-16	7/7/2009	1440	FALSE
Soil-17	7/8/2009	1120	FALSE

Dixon's Test for Outliers

Parameter: Cadmium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.379189	0.102041	0.507	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	120 J	FALSE
	7/7/2009	151	FALSE
Soil-11	7/7/2009	184	FALSE
Soil-12	7/7/2009	297	FALSE
Soil-13	7/8/2009	492	FALSE
Soil-13D	7/8/2009	522	FALSE
Soil-14	7/8/2009	262	FALSE
Soil-1	1/23/2009	100 J	FALSE
Soil-2	1/23/2009	140	FALSE
Soil-4	1/23/2009	190	FALSE
Soil-5	1/23/2009	200	FALSE
Soil-6	1/23/2009	220	FALSE
Soil-10	7/7/2009	148	FALSE
Soil-15	7/7/2009	707	FALSE
Soil-16	7/7/2009	158 J	FALSE
Soil-17	7/8/2009	150	FALSE

Dixon's Test for Outliers

Parameter: Chromium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.541369	0.0947581	0.507	126000
2	0.169492	0.107062	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	39000	FALSE
	7/7/2009	41800 B	FALSE
Soil-11	7/7/2009	28100 B	FALSE
Soil-12	7/7/2009	57000 B	FALSE
Soil-13	7/8/2009	73000 B	FALSE
Soil-13D	7/8/2009	75300 B	FALSE
Soil-14	7/8/2009	67300 B	FALSE
Soil-1	1/23/2009	31000	FALSE
Soil-2	1/23/2009	25000	FALSE
Soil-4	1/23/2009	33000	FALSE
Soil-5	1/23/2009	48000	FALSE
Soil-6	1/23/2009	49000	FALSE
Soil-10	7/7/2009	23400 B	FALSE
Soil-15	7/7/2009	126000 B	TRUE
Soil-16	7/7/2009	63600 B	FALSE
Soil-17	7/8/2009	52600 B	FALSE

Dixon's Test for Outliers

Parameter: Cobalt

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.564516	0.15625	0.507	18800
2	0.341772	0.16129	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	5400	FALSE
	7/7/2009	7610	FALSE
Soil-11	7/7/2009	5600	FALSE
Soil-12	7/7/2009	10600	FALSE
Soil-13	7/8/2009	11800	FALSE
Soil-13D	7/8/2009	11600	FALSE
Soil-14	7/8/2009	10200	FALSE
Soil-1	1/23/2009	6400	FALSE
Soil-2	1/23/2009	9300	FALSE
Soil-4	1/23/2009	8100	FALSE
Soil-5	1/23/2009	7500	FALSE
Soil-6	1/23/2009	9300	FALSE
Soil-10	7/7/2009	14300	FALSE
Soil-15	7/7/2009	18800	TRUE
Soil-16	7/7/2009	8470	FALSE
Soil-17	7/8/2009	6690	FALSE

Dixon's Test for Outliers

Parameter: Copper

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.679012	0.140496	0.507	45100
2	0.486911	0.147826	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	11000	FALSE
	7/7/2009	15000 B	FALSE
Soil-11	7/7/2009	12700 B	FALSE
Soil-12	7/7/2009	18400 B	FALSE
Soil-13	7/8/2009	22500 B	FALSE
Soil-13D	7/8/2009	23100 B	FALSE
Soil-14	7/8/2009	20800 B	FALSE
Soil-1	1/23/2009	11000	FALSE
Soil-2	1/23/2009	13000	FALSE
Soil-4	1/23/2009	16000	FALSE
Soil-5	1/23/2009	16000	FALSE
Soil-6	1/23/2009	18000	FALSE
Soil-10	7/7/2009	21300 B	FALSE
Soil-15	7/7/2009	45100 B	TRUE
Soil-16	7/7/2009	31800 B	FALSE
Soil-17	7/8/2009	19000 B	FALSE

Dixon's Test for Outliers

Parameter: Lead

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.685039	0.2	0.507	54100
2	0.347305	0.215827	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	21000	FALSE
	7/7/2009	28000	FALSE
Soil-11	7/7/2009	24600	FALSE
Soil-12	7/7/2009	23500	FALSE
Soil-13	7/8/2009	26300	FALSE
Soil-13D	7/8/2009	26900	FALSE
Soil-14	7/8/2009	25000	FALSE
Soil-1	1/23/2009	13000	FALSE
Soil-2	1/23/2009	14000	FALSE
Soil-4	1/23/2009	19000	FALSE
Soil-5	1/23/2009	16000	FALSE
Soil-6	1/23/2009	22000	FALSE
Soil-10	7/7/2009	26200	FALSE
Soil-15	7/7/2009	54100	TRUE
Soil-16	7/7/2009	32700	FALSE
Soil-17	7/8/2009	23900	FALSE

Dixon's Test for Outliers

Parameter: Nickel

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.533835	0.191129	0.507	37600
2	0.206349	0.226605	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	15000	FALSE
	7/7/2009	13000	FALSE
Soil-11	7/7/2009	8070	FALSE
Soil-12	7/7/2009	16400	FALSE
Soil-13	7/8/2009	23600	FALSE
Soil-13D	7/8/2009	23400	FALSE
Soil-14	7/8/2009	19600	FALSE
Soil-1	1/23/2009	8700	FALSE
Soil-2	1/23/2009	11000	FALSE
Soil-4	1/23/2009	15000	FALSE
Soil-5	1/23/2009	19000	FALSE
Soil-6	1/23/2009	21000	FALSE
Soil-10	7/7/2009	12700	FALSE
Soil-15	7/7/2009	37600	TRUE
Soil-16	7/7/2009	19800	FALSE
Soil-17	7/8/2009	13700	FALSE

Dixon's Test for Outliers

Parameter: Silver

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.275862	0.00473934	0.507	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	ND<55 U	FALSE
	7/7/2009	345 J	FALSE
Soil-11	7/7/2009	143 J	FALSE
Soil-12	7/7/2009	ND<85.9 U	FALSE
Soil-13	7/8/2009	144 J	FALSE
Soil-13D	7/8/2009	ND<89.5 U	FALSE
Soil-14	7/8/2009	97.6 J	FALSE
Soil-1	1/23/2009	ND<55 U	FALSE
Soil-2	1/23/2009	ND<54 U	FALSE
Soil-4	1/23/2009	ND<68 U	FALSE
Soil-5	1/23/2009	ND<58 U	FALSE
Soil-6	1/23/2009	ND<90 U	FALSE
Soil-10	7/7/2009	ND<63.8 U	FALSE
Soil-15	7/7/2009	ND<265 U	FALSE
Soil-16	7/7/2009	293 J	FALSE
Soil-17	7/8/2009	ND<108 U	FALSE

Dixon's Test for Outliers

Parameter: Vanadium

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.721008	0.121693	0.507	176000
2	0.0686567	0.128492	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	57000	FALSE
	7/7/2009	68200	FALSE
Soil-11	7/7/2009	54800	FALSE
Soil-12	7/7/2009	76300	FALSE
Soil-13	7/8/2009	88200	FALSE
Soil-13D	7/8/2009	90200	FALSE
Soil-14	7/8/2009	83000	FALSE
Soil-1	1/23/2009	64000	FALSE
Soil-2	1/23/2009	59000	FALSE
Soil-4	1/23/2009	63000	FALSE
Soil-5	1/23/2009	61000	FALSE
Soil-6	1/23/2009	78000	FALSE
Soil-10	7/7/2009	52400	FALSE
Soil-15	7/7/2009	176000	TRUE
Soil-16	7/7/2009	90500	FALSE
Soil-17	7/8/2009	77800	FALSE

Dixon's Test for Outliers

Parameter: Zinc

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 16 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.564153	0.0991903	0.507	134000
2	0.440225	0.10962	0.525	None

Loc.	Date	Conc.	Outlier
Soil-7	1/23/2009	27000	FALSE
	7/7/2009	35500	FALSE
Soil-11	7/7/2009	31900	FALSE
Soil-12	7/7/2009	46100	FALSE
Soil-13	7/8/2009	76400	FALSE
Soil-13D	7/8/2009	71700	FALSE
Soil-14	7/8/2009	55600	FALSE
Soil-1	1/23/2009	28000	FALSE
Soil-2	1/23/2009	32000	FALSE
Soil-4	1/23/2009	48000	FALSE
Soil-5	1/23/2009	69000	FALSE
Soil-6	1/23/2009	50000	FALSE
Soil-10	7/7/2009	42500	FALSE
Soil-15	7/7/2009	134000	TRUE
Soil-16	7/7/2009	70400	FALSE
Soil-17	7/8/2009	103000	FALSE

Lowland Area Surface Water Samples

Dixon's Test for Outliers

Parameter: Antimony Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.573726	0	0.44	5.57
2	0.60176	0	0.45	3.62
3	0.557222	0	0.462	2.43
4	0.342124	0	0.475	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	1.13	FALSE
SW-2	1/23/2009	ND<0.097 U	FALSE
SW-5	1/23/2009	ND<0.097 U	FALSE
SW-14	7/7/2009	ND<0.68 U	FALSE
SW-15	7/7/2009	ND<0.68 U	FALSE
SW-12	7/8/2009	0.97 J	FALSE
SW-12D	7/8/2009	3.62 J	TRUE
SW-9	7/8/2009	5.57 J	TRUE
Leachate	1/19/2009	1.5	FALSE
Discharge	1/20/2009	ND<0.097 U	FALSE
	7/7/2009	ND<0.68 U	FALSE
SW-3	1/23/2009	ND<0.097 U	FALSE
	7/7/2009	ND<0.68 U	FALSE
SW-4	1/23/2009	ND<0.097 U	FALSE
SW-6	7/7/2009	ND<0.68 U	FALSE
SW-7	7/7/2009	ND<0.68 U	FALSE
SW-11	7/8/2009	2.43 J	TRUE
SW-16	7/8/2009	ND<0.68 U	FALSE
SW-16D	7/8/2009	ND<0.68 U	FALSE
SW-17	7/8/2009	ND<0.68 U	FALSE
SW-8	7/8/2009	1.02 J	FALSE

Dixon's Test for Outliers

Parameter: Arsenic Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.163895	0	0.44	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.261 U	FALSE
SW-2	1/23/2009	0.27 J	FALSE
SW-5	1/23/2009	ND<0.261 U	FALSE
SW-14	7/7/2009	3.04 J	FALSE
SW-15	7/7/2009	3.76 J	FALSE
SW-12	7/8/2009	ND<2.8 U	FALSE
SW-12D	7/8/2009	3.26 J	FALSE
SW-9	7/8/2009	ND<2.8 U	FALSE
Leachate	1/19/2009	2.12	FALSE
Discharge	1/20/2009	0.803 J	FALSE
	7/7/2009	ND<2.8 U	FALSE
SW-3	1/23/2009	ND<0.261 U	FALSE
	7/7/2009	3.73 J	FALSE
SW-4	1/23/2009	ND<0.261 U	FALSE
SW-6	7/7/2009	ND<2.8 U	FALSE
SW-7	7/7/2009	4.41 J	FALSE
SW-11	7/8/2009	3.47 J	FALSE
SW-16	7/8/2009	ND<2.8 U	FALSE
SW-16D	7/8/2009	ND<2.8 U	FALSE
SW-17	7/8/2009	ND<2.8 U	FALSE
SW-8	7/8/2009	ND<2.8 U	FALSE

Dixon's Test for Outliers

Parameter: Barium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.493862	0.0182724	0.44	373
2	0.632311	0.027592	0.45	339
3	0.518895	0.037246	0.462	200
4	0.60963	0.0677618	0.475	139
5	0.498242	0.0715835	0.49	108
6	0.286344	0.092437	0.507	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	19.4 B	FALSE
SW-2	1/23/2009	48.2 B	FALSE
SW-5	1/23/2009	52.6 B	FALSE
SW-14	7/7/2009	24.6 J	FALSE
SW-15	7/7/2009	27 J	FALSE
SW-12	7/8/2009	139	TRUE
SW-12D	7/8/2009	373	TRUE
SW-9	7/8/2009	108	TRUE
Leachate	1/19/2009	339	TRUE
Discharge	1/20/2009	37.1	FALSE
	7/7/2009	50.1 J	FALSE
SW-3	1/23/2009	22.1 B	FALSE
	7/7/2009	22.7 J	FALSE
SW-4	1/23/2009	22.7 B	FALSE
SW-6	7/7/2009	55.1 J	FALSE
SW-7	7/7/2009	65.5 J	FALSE
SW-11	7/8/2009	200	TRUE
SW-16	7/8/2009	48.9 J	FALSE
SW-16D	7/8/2009	45.4 J	FALSE
SW-17	7/8/2009	28.7 J	FALSE
SW-8	7/8/2009	68.1 J	FALSE

Dixon's Test for Outliers

Parameter: Beryllium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.711423	0	0.44	0.527
2	0.0952381	0	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.028 U	FALSE
SW-2	1/23/2009	0.048 J	FALSE
SW-5	1/23/2009	0.175 J	FALSE
SW-14	7/7/2009	ND<0.075 U	FALSE
SW-15	7/7/2009	ND<0.075 U	FALSE
SW-12	7/8/2009	0.161 J	FALSE
SW-12D	7/8/2009	0.527 J	TRUE
SW-9	7/8/2009	ND<0.075 U	FALSE
Leachate	1/19/2009	0.084 J	FALSE
Discharge	1/20/2009	0.028 J	FALSE
	7/7/2009	ND<0.075 U	FALSE
SW-3	1/23/2009	ND<0.028 U	FALSE
	7/7/2009	0.0937 J	FALSE
SW-4	1/23/2009	0.032 J	FALSE
SW-6	7/7/2009	ND<0.075 U	FALSE
SW-7	7/7/2009	ND<0.075 U	FALSE
SW-11	7/8/2009	0.172 J	FALSE
SW-16	7/8/2009	ND<0.075 U	FALSE
SW-16D	7/8/2009	ND<0.075 U	FALSE
SW-17	7/8/2009	ND<0.075 U	FALSE
SW-8	7/8/2009	ND<0.075 U	FALSE

Dixon's Test for Outliers

Parameter: Cadmium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.56391	0	0.44	0.458
2	0.806878	0	0.45	0.437
3	0.689655	0	0.462	0.233
4	0.461644	0	0.475	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.059 U	FALSE
SW-2	1/23/2009	ND<0.059 U	FALSE
SW-5	1/23/2009	ND<0.059 U	FALSE
SW-14	7/7/2009	ND<0.087 U	FALSE
SW-15	7/7/2009	0.132 J	FALSE
SW-12	7/8/2009	0.113 J	FALSE
SW-12D	7/8/2009	0.437 J	TRUE
SW-9	7/8/2009	ND<0.087 U	FALSE
Leachate	1/19/2009	0.458	TRUE
Discharge	1/20/2009	ND<0.059 U	FALSE
	7/7/2009	ND<0.087 U	FALSE
SW-3	1/23/2009	ND<0.059 U	FALSE
	7/7/2009	ND<0.087 U	FALSE
SW-4	1/23/2009	ND<0.059 U	FALSE
SW-6	7/7/2009	ND<0.087 U	FALSE
SW-7	7/7/2009	ND<0.087 U	FALSE
SW-11	7/8/2009	0.233 J	TRUE
SW-16	7/8/2009	0.0983 J	FALSE
SW-16D	7/8/2009	ND<0.087 U	FALSE
SW-17	7/8/2009	ND<0.087 U	FALSE
SW-8	7/8/2009	ND<0.087 U	FALSE

Dixon's Test for Outliers

Parameter: Chromium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.682463	0	0.44	23.6
2	0.292264	0	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.346 U	FALSE
SW-2	1/23/2009	ND<0.346 U	FALSE
SW-5	1/23/2009	2.35 J	FALSE
SW-14	7/7/2009	1.25 J	FALSE
SW-15	7/7/2009	1.41 J	FALSE
SW-12	7/8/2009	6.86 JB	FALSE
SW-12D	7/8/2009	23.6 B	TRUE
SW-9	7/8/2009	2.66 JB	FALSE
Leachate	1/19/2009	9.55	FALSE
Discharge	1/20/2009	0.995 J	FALSE
	7/7/2009	1.39 J	FALSE
SW-3	1/23/2009	ND<0.346 U	FALSE
	7/7/2009	1.51 J	FALSE
SW-4	1/23/2009	ND<0.346 U	FALSE
SW-6	7/7/2009	2.37 J	FALSE
SW-7	7/7/2009	1.36 J	FALSE
SW-11	7/8/2009	7.73 JB	FALSE
SW-16	7/8/2009	3.58 JB	FALSE
SW-16D	7/8/2009	2.35 JB	FALSE
SW-17	7/8/2009	2.25 JB	FALSE
SW-8	7/8/2009	3.96 JB	FALSE

Dixon's Test for Outliers

Parameter: Cobalt Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.660694	0.022423	0.44	36.3
2	0.342776	0.0290856	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	0.302 J	FALSE
SW-2	1/23/2009	2.23 J	FALSE
SW-5	1/23/2009	6.3	FALSE
SW-14	7/7/2009	ND<0.58 U	FALSE
SW-15	7/7/2009	ND<0.58 U	FALSE
SW-12	7/8/2009	12.7	FALSE
SW-12D	7/8/2009	36.3	TRUE
SW-9	7/8/2009	7.51 J	FALSE
Leachate	1/19/2009	9.86	FALSE
Discharge	1/20/2009	2.9 J	FALSE
	7/7/2009	2.36 J	FALSE
SW-3	1/23/2009	0.702 J	FALSE
	7/7/2009	0.597 J	FALSE
SW-4	1/23/2009	1.13 J	FALSE
SW-6	7/7/2009	3.04 J	FALSE
SW-7	7/7/2009	3.42 J	FALSE
SW-11	7/8/2009	14.7	FALSE
SW-16	7/8/2009	1.82 J	FALSE
SW-16D	7/8/2009	1.96 J	FALSE
SW-17	7/8/2009	0.654 J	FALSE
SW-8	7/8/2009	2.95 J	FALSE

Dixon's Test for Outliers

Parameter: Copper Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.789691	0.187251	0.44	15.5
2	0.190769	0.211394	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	0.245 J	FALSE
SW-2	1/23/2009	1.51	FALSE
SW-5	1/23/2009	3.19	FALSE
SW-14	7/7/2009	0.95 J	FALSE
SW-15	7/7/2009	1.43 J	FALSE
SW-12	7/8/2009	3.58 JB	FALSE
SW-12D	7/8/2009	15.5 B	TRUE
SW-9	7/8/2009	1.88 JB	FALSE
Leachate	1/19/2009	4.2	FALSE
Discharge	1/20/2009	3.37	FALSE
	7/7/2009	1.12 J	FALSE
SW-3	1/23/2009	1.17	FALSE
	7/7/2009	1.28 J	FALSE
SW-4	1/23/2009	1.62	FALSE
SW-6	7/7/2009	0.933 J	FALSE
SW-7	7/7/2009	1.39 J	FALSE
SW-11	7/8/2009	4.01 JB	FALSE
SW-16	7/8/2009	1.92 JB	FALSE
SW-16D	7/8/2009	2.12 JB	FALSE
SW-17	7/8/2009	2.13 JB	FALSE
SW-8	7/8/2009	1.56 JB	FALSE

Dixon's Test for Outliers

Parameter: Lead Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.551931	0.0864641	0.44	11.9
2	0.46778	0.14924	0.45	5.71
3	0.568674	0.179948	0.462	5.64
4	0.207877	0.181304	0.475	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	0.084 J	FALSE
SW-2	1/23/2009	0.558 J	FALSE
SW-5	1/23/2009	3.3	FALSE
SW-14	7/7/2009	ND<1.6 U	FALSE
SW-15	7/7/2009	ND<1.6 U	FALSE
SW-12	7/8/2009	5.71 J	TRUE
SW-12D	7/8/2009	11.9	TRUE
SW-9	7/8/2009	2.73 J	FALSE
Leachate	1/19/2009	2.45	FALSE
Discharge	1/20/2009	1.09	FALSE
	7/7/2009	ND<1.6 U	FALSE
SW-3	1/23/2009	0.077 J	FALSE
	7/7/2009	ND<1.6 U	FALSE
SW-4	1/23/2009	0.796 J	FALSE
SW-6	7/7/2009	ND<1.6 U	FALSE
SW-7	7/7/2009	1.7 J	FALSE
SW-11	7/8/2009	5.64 J	TRUE
SW-16	7/8/2009	2.75 J	FALSE
SW-16D	7/8/2009	2.15 J	FALSE
SW-17	7/8/2009	ND<1.6 U	FALSE
SW-8	7/8/2009	ND<1.6 U	FALSE

Dixon's Test for Outliers

Parameter: Nickel Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.580096	0.0820076	0.44	10.4
2	0.693732	0.111145	0.45	10.2
3	0.439346	0.137439	0.462	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.277 U	FALSE
SW-2	1/23/2009	0.889 J	FALSE
SW-5	1/23/2009	1.77 J	FALSE
SW-14	7/7/2009	0.708 J	FALSE
SW-15	7/7/2009	1.41 J	FALSE
SW-12	7/8/2009	3.57 J	FALSE
SW-12D	7/8/2009	10.4 J	TRUE
SW-9	7/8/2009	2.63 J	FALSE
Leachate	1/19/2009	10.2	TRUE
Discharge	1/20/2009	2.16 J	FALSE
	7/7/2009	0.83 J	FALSE
SW-3	1/23/2009	0.643 J	FALSE
	7/7/2009	1.35 J	FALSE
SW-4	1/23/2009	0.609 J	FALSE
SW-6	7/7/2009	1.33 J	FALSE
SW-7	7/7/2009	2.04 J	FALSE
SW-11	7/8/2009	4.74 J	FALSE
SW-16	7/8/2009	1.46 J	FALSE
SW-16D	7/8/2009	1.34 J	FALSE
SW-17	7/8/2009	1.26 J	FALSE
SW-8	7/8/2009	2.94 J	FALSE

Dixon's Test for Outliers

Parameter: Selenium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.0922988	0	0.44	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	0.599 J	FALSE
SW-2	1/23/2009	0.391 J	FALSE
SW-5	1/23/2009	ND<0.253 U	FALSE
SW-14	7/7/2009	ND<3.4 U	FALSE
SW-15	7/7/2009	ND<3.4 U	FALSE
SW-12	7/8/2009	ND<3.4 U	FALSE
SW-12D	7/8/2009	ND<3.4 U	FALSE
SW-9	7/8/2009	ND<3.4 U	FALSE
Leachate	1/19/2009	ND<0.253 U	FALSE
Discharge	1/20/2009	ND<0.253 U	FALSE
	7/7/2009	ND<3.4 U	FALSE
SW-3	1/23/2009	ND<0.253 U	FALSE
	7/7/2009	ND<3.4 U	FALSE
SW-4	1/23/2009	ND<0.253 U	FALSE
SW-6	7/7/2009	3.72 J	FALSE
SW-7	7/7/2009	ND<3.4 U	FALSE
SW-11	7/8/2009	ND<3.4 U	FALSE
SW-16	7/8/2009	ND<3.4 U	FALSE
SW-16D	7/8/2009	ND<3.4 U	FALSE
SW-17	7/8/2009	ND<3.4 U	FALSE
SW-8	7/8/2009	ND<3.4 U	FALSE

Dixon's Test for Outliers

Parameter: Silver Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.0866218	0	0.44	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.011 U	FALSE
SW-2	1/23/2009	ND<0.011 U	FALSE
SW-5	1/23/2009	ND<0.011 U	FALSE
SW-14	7/7/2009	ND<0.96 U	FALSE
SW-15	7/7/2009	ND<0.96 U	FALSE
SW-12	7/8/2009	ND<0.96 U	FALSE
SW-12D	7/8/2009	1.05 J	FALSE
SW-9	7/8/2009	ND<0.96 U	FALSE
Leachate	1/19/2009	0.242 J	FALSE
Discharge	1/20/2009	ND<0.011 U	FALSE
	7/7/2009	ND<0.96 U	FALSE
SW-3	1/23/2009	ND<0.011 U	FALSE
	7/7/2009	ND<0.96 U	FALSE
SW-4	1/23/2009	ND<0.011 U	FALSE
SW-6	7/7/2009	ND<0.96 U	FALSE
SW-7	7/7/2009	ND<0.96 U	FALSE
SW-11	7/8/2009	ND<0.96 U	FALSE
SW-16	7/8/2009	ND<0.96 U	FALSE
SW-16D	7/8/2009	ND<0.96 U	FALSE
SW-17	7/8/2009	ND<0.96 U	FALSE
SW-8	7/8/2009	ND<0.96 U	FALSE

Dixon's Test for Outliers

Parameter: Thallium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.835391	0	0.44	0.279
2	0.333333	0	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<0.076 U	FALSE
SW-2	1/23/2009	ND<0.076 U	FALSE
SW-5	1/23/2009	0.096 J	FALSE
SW-14	7/7/2009	ND<0.036 U	FALSE
SW-15	7/7/2009	ND<0.036 U	FALSE
SW-12	7/8/2009	ND<0.036 U	FALSE
SW-12D	7/8/2009	ND<0.036 U	FALSE
SW-9	7/8/2009	ND<0.036 U	FALSE
Leachate	1/19/2009	0.279 J	TRUE
Discharge	1/20/2009	ND<0.076 U	FALSE
	7/7/2009	ND<0.036 U	FALSE
SW-3	1/23/2009	ND<0.076 U	FALSE
	7/7/2009	ND<0.036 U	FALSE
SW-4	1/23/2009	ND<0.076 U	FALSE
SW-6	7/7/2009	ND<0.036 U	FALSE
SW-7	7/7/2009	ND<0.036 U	FALSE
SW-11	7/8/2009	ND<0.036 U	FALSE
SW-16	7/8/2009	ND<0.036 U	FALSE
SW-16D	7/8/2009	ND<0.036 U	FALSE
SW-17	7/8/2009	ND<0.036 U	FALSE
SW-8	7/8/2009	ND<0.036 U	FALSE

Dixon's Test for Outliers

Parameter: Vanadium Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.725697	0.0228188	0.44	28
2	0.147754	0.0230352	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<1.46 U	FALSE
SW-2	1/23/2009	2.22 J	FALSE
SW-5	1/23/2009	8.74	FALSE
SW-14	7/7/2009	1.39 J	FALSE
SW-15	7/7/2009	1.59 J	FALSE
SW-12	7/8/2009	8.67 J	FALSE
SW-12D	7/8/2009	28	TRUE
SW-9	7/8/2009	3.56 J	FALSE
Leachate	1/19/2009	4.94 J	FALSE
Discharge	1/20/2009	4.3 J	FALSE
	7/7/2009	2.53 J	FALSE
SW-3	1/23/2009	ND<1.46 U	FALSE
	7/7/2009	3.19 J	FALSE
SW-4	1/23/2009	2.88 J	FALSE
SW-6	7/7/2009	3.03 J	FALSE
SW-7	7/7/2009	1.29 J	FALSE
SW-11	7/8/2009	9.92 J	FALSE
SW-16	7/8/2009	3.91 J	FALSE
SW-16D	7/8/2009	3.17 J	FALSE
SW-17	7/8/2009	1.82 J	FALSE
SW-8	7/8/2009	5.87 J	FALSE

Dixon's Test for Outliers

Parameter: Zinc Total

All Locations

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

For 21 Measurements...
5% Level of Significance

Iteration	Highest	Lowest	Critical	Outlier
1	0.648963	0.0438149	0.44	148
2	0.430821	0.05038	0.45	None

Loc.	Date	Conc.	Outlier
SW-1	1/23/2009	ND<1.45 U	FALSE
SW-2	1/23/2009	8.1 BJ	FALSE
SW-5	1/23/2009	11.2 B	FALSE
SW-14	7/7/2009	3.77 J	FALSE
SW-15	7/7/2009	3.6 J	FALSE
SW-12	7/8/2009	37.6	FALSE
SW-12D	7/8/2009	80.6	FALSE
SW-9	7/8/2009	43.7	FALSE
Leachate	1/19/2009	148	TRUE
Discharge	1/20/2009	54.4	FALSE
	7/7/2009	47.5	FALSE
SW-3	1/23/2009	4.11 BJ	FALSE
	7/7/2009	5.88 J	FALSE
SW-4	1/23/2009	7.45 BJ	FALSE
SW-6	7/7/2009	9.04 J	FALSE
SW-7	7/7/2009	20.2	FALSE
SW-11	7/8/2009	37.4	FALSE
SW-16	7/8/2009	37.4	FALSE
SW-16D	7/8/2009	29.1	FALSE
SW-17	7/8/2009	8.91 J	FALSE
SW-8	7/8/2009	39.1	FALSE

APPENDIX IV

Analytical Data Summaries

Sediment Trap Soil Samples
Lowlands Soil Samples
Lowlands Surface Water Samples

Data Summary - Sediment Trap Soil Samples

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

METALS

ANTIMONY

Background Samples

Number of Detections: Detected in 6 of 8 locations
Concentration Range: ND to 4.25 mg/kg

Blanks

Antimony was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 3 of 5 locations
Concentration Range: ND to 1.73 mg/kg
Sample Location with Highest Concentration: Soil-9 1ftD
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

ARSENIC

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 2.2 to 5.07 mg/kg

Blanks

Arsenic was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 2.96 to 11.7 mg/kg
Sample Location with Highest Concentration: Soil-9 1ft
Number of Samples Above Highest Background Concentration: 4
Outliers in Data Range: No If Yes, Which Samples: N/A

BARIUM

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 36.2 to 170 mg/kg

Blanks

Barium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 28.5 to 110 mg/kg
Sample Location with Highest Concentration: Soil-3
Number of Samples Above Highest Background Concentration: None
Outliers in Data Range: No If Yes, Which Samples: N/A

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

BERYLLIUM

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 0.529 to 1.71 mg/kg

Blanks

Beryllium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 0.369 to 1.92 mg/kg
Sample Location with Highest Concentration: Soil-9 1ftD
Number of Samples Above Highest Background Concentration: 2
Outliers in Data Range: No If Yes, Which Samples: N/A

CADMIUM

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: .0475J to 0.522 mg/kg

Blanks

Cadmium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 0.042J to 0.222 mg/kg
Sample Location with Highest Concentration: Soil-9 1ft
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

CHROMIUM

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 28.1B to 75.3B mg/kg

Blanks

Chromium was detected in the method blanks for the July 7 and 8, 2009 soil samples.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 21.5B to 32.9B mg/kg
Sample Location with Highest Concentration: Soil-9 1 ftD
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

COBALT

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 4.49 to 11.8 mg/kg

Blanks

Cobalt was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 7.07 to 31.6 mg/kg
Sample Location with Highest Concentration: Soil-9 1ft
Number of Samples Above Highest Background Concentration: 4
Outliers in Data Range: No If Yes, Which Samples: N/A

COPPER

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 11 to 23.1B mg/kg

Blanks

Copper was detected in the method blanks for the July 8, 2009 soil samples.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 8.12B to 27.6B mg/kg
Sample Location with Highest Concentration: Soil-9 2ft
Number of Samples Above Highest Background Concentration: 3
Outliers in Data Range: No If Yes, Which Samples: N/A

LEAD

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 18.3 to 28 mg/kg

Blanks

Lead was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 15.5 to 22.1 mg/kg
Sample Location with Highest Concentration: Soil-9 1ft
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

NICKEL

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 8.07 to 23.6 mg/kg

Blanks

Nickel was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 4.73 to 23.9 mg/kg
Sample Location with Highest Concentration: Soil-9 1ft
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: No If Yes, Which Samples: N/A

SILVER

Background Samples

Number of Detections: Detected in 4 of 8 locations
Concentration Range: ND to 0.345J mg/kg

Blanks

Silver was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 0 of 5 locations
Concentration Range: N/A to N/A mg/kg
Sample Location with Highest Concentration: N/A
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: Yes If Yes, Which Samples: Soil-7, Soil-11, Soil-13

VANADIUM

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 54.8 to 90.2 mg/kg

Blanks

Vanadium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 40 to 69 mg/kg
Sample Location with Highest Concentration: Soil-3
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

ZINC

Background Samples

Number of Detections: Detected in 8 of 8 locations
Concentration Range: 19 to 76.4 mg/kg

Blanks

Zinc was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 5 locations
Concentration Range: 15.1 to 72 mg/kg
Sample Location with Highest Concentration: Soil-3
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

VOLATILE ORGANIC COMPOUNDS

ACETONE

Background Samples

Number of Detections: Detected in 5 of 8 locations
Concentration Range: ND to 160 µg/kg

Blanks

Acetone was detected in Equipment Blanks and Field Blank at concentrations ranging from 41 to 59 µg/L.

Assessment Samples

Number of Detections: Detected in 4 of 5 locations
Concentration Range: ND to 65 µg/kg
Sample Location with Highest Concentration: Soil-9 3ft
Number of Samples Above Highest Background Concentration: 0

2-BUTANONE (MEK)

Background Samples

Number of Detections: Detected in 2 of 8 locations
Concentration Range: ND to 22 µg/kg

Blanks

2-Butanone was detected in Equipment Blank B at a concentration of 2.7 µg/L.

Assessment Samples

Number of Detections: Detected in 2 of 5 locations
Concentration Range: ND to 58 µg/kg
Sample Location with Highest Concentration: Soil-3
Number of Samples Above Highest Background Concentration: 1

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

CARBON DISULFIDE

Background Samples

Number of Detections: Detected in 1 of 8 locations
Concentration Range: ND to 0.6J µg/kg

Blanks

Carbon Disulfide was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 5 locations
Concentration Range: ND to 0.5J µg/kg
Sample Location with Highest Concentration: Soil-9 3ft
Number of Samples Above Highest Background Concentration: 0

m & p XYLENES

Background Samples

Number of Detections: Detected in 1 of 8 locations
Concentration Range: ND to 0.4J µg/kg

Blanks

m & p Xylenes were not detected in there respective blanks.

Assessment Samples

Number of Detections: Detected in 2 of 5 locations
Concentration Range: ND to 0.6J µg/kg
Sample Location with Highest Concentration: Soil-9 2ft
Number of Samples Above Highest Background Concentration: 1

TETRACHLOROETHENE

Background Samples

Number of Detections: Detected in 1 of 8 locations
Concentration Range: ND to 13 µg/kg

Blanks

Tetrachloroethene was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 5 locations
Concentration Range: ND to 11 µg/kg
Sample Location with Highest Concentration: Soil-9 2ft
Number of Samples Above Highest Background Concentration: 0

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

TOLUENE

Background Samples

Number of Detections: Detected in 3 of 8 locations
Concentration Range: ND to 0.8J µg/kg

Blanks

Tolune was detected in Equipment Blank B and the Field Blank at concentrations of 0.76 and 0.75 µg/L, respectively.

Assessment Samples

Number of Detections: Detected in 3 of 5 locations
Concentration Range: ND to 0.6J µg/kg
Sample Location with Highest Concentration: Soil-9 2ft
Number of Samples Above Highest Background Concentration: 0

CLASSICAL CHEMISTRY COMPOUNDS

NITRATE/NITRITE

Background Samples

Concentration Range: 0.27 to 4.4 mg/kg

Blanks

Nitrate/Nitrite was not detected in its respective blanks.

Assessment Samples

Concentration Range: ND to 0.75 mg/kg

PHOSPHORUS

Background Samples

Concentration Range: 0.69 to 900D mg/kg

Blanks

Phosphorus was not detected in its respective blanks.

Assessment Samples

Concentration Range: 1.8 to 570D mg/kg

DATA SUMMARY

SOIL SAMPLES - SEDIMENT TRAP

Assessment Sample: Soil-3, Soil-9 1ft, Soil-9 1ftD, Soil-9 2ft and Soil-9 3ft
Background Sample : Soil-7, Soil-8, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

SULFATE

Background Samples

Concentration Range:	28J	to	52J	mg/kg

Blanks

Sulfate was detected in the method blanks for the January 23, 2009 samples.

Assessment Samples

Concentration Range:	23J	to	79J	mg/kg

Data Summary - Lowlands Area Soil Samples

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

METALS

ANTIMONY

Background Samples

Number of Detections: Detected in 5 of 7 locations
Concentration Range: ND to 4.25 mg/kg

Blanks

Antimony was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 6 of 9 locations
Concentration Range: ND to 6.85 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: No If Yes, Which Samples: N/A

ARSENIC

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 4 to 5.07 mg/kg

Blanks

Arsenic was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 3.8 to 9.48 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 4
Outliers in Data Range: Yes If Yes, Which Samples: Soil-10 and Soil-15

BARIUM

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 52 to 170 mg/kg

Blanks

Barium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 39 to 255 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: No If Yes, Which Samples: N/A

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

BERYLLIUM

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 0.66 to 1.71 mg/kg

Blanks

Beryllium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 0.62 to 3.07 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

CADMIUM

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 0.12J to 0.522 mg/kg

Blanks

Cadmium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 0.1J to 0.707 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: No If Yes, Which Samples: N/A

CHROMIUM

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 28.1B to 75.3B mg/kg

Blanks

Chromium was detected in the method blanks for the July 8, 2009 soil samples.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 23.4B to 126B mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

COBALT

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 5.4 to 11.8 mg/kg

Blanks

Cobalt was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 6.4 to 18.8 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 2
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

COPPER

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 11 to 23.1B mg/kg

Blanks

Copper was detected in the method blanks for the July 7 and 8, 2009 soil samples.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 11 to 45.1B mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 2
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

LEAD

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 21 to 28 mg/kg

Blanks

Lead was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 13 to 54.1 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 2
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

NICKEL

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 8.07 to 23.6 mg/kg

Blanks

Nickel was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 8.7 to 37.6 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 1
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

SILVER

Background Samples

Number of Detections: Detected in 4 of 7 locations
Concentration Range: ND to 0.345J mg/kg

Blanks

Silver was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 9 locations
Concentration Range: ND to 0.293 mg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 0
Outliers in Data Range: No If Yes, Which Samples: N/A

VANADIUM

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 54.8 to 90.2 mg/kg

Blanks

Vanadium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 52.4 to 176 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 2
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

ZINC

Background Samples

Number of Detections: Detected in 7 of 7 locations
Concentration Range: 27 to 76.4 mg/kg

Blanks

Zinc was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 9 of 9 locations
Concentration Range: 28 to 134 mg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 2
Outliers in Data Range: Yes If Yes, Which Samples: Soil-15

VOLATILE ORGANIC COMPOUNDS

ACETONE

Background Samples

Number of Detections: Detected in 5 of 7 locations
Concentration Range: ND to 160 µg/kg

Blanks

Acetone was detected in Equipment Blanks and Field Blank at concentrations ranging from 41 to 59 µg/L.

Assessment Samples

Number of Detections: Detected in 7 of 9 locations
Concentration Range: ND to 1800 µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 3

2-BUTANONE (MEK)

Background Samples

Number of Detections: Detected in 2 of 7 locations
Concentration Range: ND to 22 µg/kg

Blanks

2-Butanone was detected in Equipment Blank B at a concentration of 2.7 µg/L.

Assessment Samples

Number of Detections: Detected in 5 of 9 locations
Concentration Range: ND to 1400 µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 4

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

CARBON DISULFIDE

Background Samples

Number of Detections: Detected in 1 of 7 locations
Concentration Range: ND to 0.6J µg/kg

Blanks

Carbon Disulfide was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 2 of 9 locations
Concentration Range: ND to 3J µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 2

ETHYLBENZENE

Background Samples

Number of Detections: Detected in 0 of 7 locations

Blanks

Ethylbenzene was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 9 locations
Concentration Range: ND to 5 µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 1

2-HEXANONE

Background Samples

Number of Detections: Detected in 0 of 7 locations

Blanks

2-Hexanone was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 2 of 9 locations
Concentration Range: ND to 73 µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 2

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

m & p XYLENES

Background Samples

Number of Detections: Detected in 0 of 7 locations

Blanks

m & p Xylenes were not detected in there respective blanks.

Assessment Samples

Number of Detections: Detected in 2 of 9 locations
Concentration Range: ND to 1J µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 2

o XYLENE

Background Samples

Number of Detections: Detected in 0 of 7 locations

Blanks

o Xylene was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 2 of 9 locations
Concentration Range: ND to 2J µg/kg
Sample Location with Highest Concentration: Soil-16
Number of Samples Above Highest Background Concentration: 2

TOLUENE

Background Samples

Number of Detections: Detected in 2 of 7 locations
Concentration Range: ND to 0.8 µg/kg

Blanks

Tolune was detected in Equipment Blank B and the Field Blank at concentrations of 0.76 and 0.75 µg/L, respectively.

Assessment Samples

Number of Detections: Detected in 3 of 9 locations
Concentration Range: ND to 980E µg/kg
Sample Location with Highest Concentration: Soil-15
Number of Samples Above Highest Background Concentration: 3

DATA SUMMARY

SOIL SAMPLES - LOWLAND AREA

Assessment Sample : Soil-1, Soil-2, Soil-4, Soil-5, Soil-6, Soil-10, Soil-15, Soil-16, Soil-17
Background Sample : Soil-7, Soil-11, Soil-12, Soil-13, Soil-13D, Soil-14
Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

CLASSICAL CHEMISTRY COMPOUNDS

NITRATE/NITRITE

Background Samples

Concentration Range: ND to 1.2J mg/kg

Blanks

Nitrate/Nitrite was not detected in its respective blanks.

Assessment Samples

Concentration Range: ND to 1.6 mg/kg

PHOSPHORUS

Background Samples

Concentration Range: 0.69 to 900D mg/kg

Blanks

Phosphorus was not detected in its respective blanks.

Assessment Samples

Concentration Range: 1.6 to 1300D mg/kg

SULFATE

Background Samples

Concentration Range: 28J to 49J mg/kg

Blanks

Sulfate was detected in the method blanks for the January 23, 2009 samples.

Assessment Samples

Concentration Range: 10 to 120J mg/kg

Data Summary – Lowlands Area Surface Water Samples

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

METALS

ANTIMONY

Background Samples

Number of Detections: Detected in 1 of 5 locations

Concentration Range: ND to 1.13 µg/L

Blanks

Antimony was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 6 of 16 locations

Concentration Range: ND to 5.57 J µg/L

Sample Location with Highest Concentration: SW-9

Number of Samples Above Highest Background Concentration: 4

Number of Samples Above Respective NCAC 2B Standard: No Standard

Outliers in Data Range: Yes If Yes, Which Samples: SW-9, SW-11, SW-12D

ARSENIC

Background Samples

Number of Detections: Detected in 3 of 5 locations

Concentration Range: ND to 3.76 J µg/L

Blanks

Arsenic was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 6 of 16 locations

Concentration Range: ND to 4.41 J µg/L

Sample Location with Highest Concentration: SW-7

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: 0 (50 ug/L)

Outliers in Data Range: No If Yes, Which Samples: N/A

BARIUM

Background Samples

Number of Detections: Detected in 5 of 5 locations

Concentration Range: 19.4 B to 52.6 B µg/L

Blanks

Barium was detected in method blanks for the January 23, 2009 surface water samples.

Assessment Samples

Number of Detections: Detected in 16 of 16 locations

Concentration Range: 22.1 B to 373 µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 8

Number of Samples Above Respective NCAC 2B Standard: No Standard

Outliers in Data Range: Yes If Yes, Which Samples: Leachate, SW-9, SW-11, SW-12, SW-12D

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

BERYLLIUM

Background Samples

Number of Detections: Detected in 2 of 5 locations

Concentration Range: ND to 0.175 J µg/L

Blanks

Beryllium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 7 of 16 locations

Concentration Range: ND to 0.527 J µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: 0 (6.5 ug/L)

Outliers in Data Range: Yes If Yes, Which Samples: SW-12D

CADMIUM

Background Samples

Number of Detections: Detected in 1 of 5 locations

Concentration Range: ND to 0.132 J µg/L

Blanks

Cadmium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 5 of 16 locations

Concentration Range: ND to 0.458 µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 3

Number of Samples Above Respective NCAC 2B Standard: 0 (2 ug/L)

Outliers in Data Range: 3 If Yes, Which Samples: Leachate, SW-11, SW-12D

CHROMIUM

Background Samples

Number of Detections: Detected in 3 of 5 locations

Concentration Range: ND to 2.35 J µg/L

Blanks

Chromium was detected in the method blanks for the July 8, 2009 surface water samples.

Assessment Samples

Number of Detections: Detected in 14 of 16 locations

Concentration Range: ND to 23.6 B µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 8

Number of Samples Above Respective NCAC 2B Standard: 0 (50 ug/L)

Outliers in Data Range: Yes If Yes, Which Samples: SW-12D

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

COBALT

Background Samples

Number of Detections: Detected in 3 of 5 locations

Concentration Range: ND to 6.3 µg/L

Blanks

Cobalt was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 16 of 16 locations

Concentration Range: 0.597 J to 36.3 µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 5

Number of Samples Above Respective NCAC 2B Standard: No Standard

Outliers in Data Range: Yes If Yes, Which Samples: SW-12D

COPPER

Background Samples

Number of Detections: Detected in 5 of 5 locations

Concentration Range: 0.245 J to 3.19 µg/L

Blanks

Copper was detected in the method blanks for the July 8, 2009 surface water samples.

Assessment Samples

Number of Detections: Detected in 16 of 16 locations

Concentration Range: 0.933 J to 15.5 B µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 5

Number of Samples Above Respective NCAC 2B Standard: 1 (7 ug/L)

Outliers in Data Range: Yes If Yes, Which Samples: SW-12D

LEAD

Background Samples

Number of Detections: Detected in 3 of 5 locations

Concentration Range: ND to 3.3 µg/L

Blanks

Lead was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 11 of 16 locations

Concentration Range: ND to 11.9 µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 3

Number of Samples Above Respective NCAC 2B Standard: 0 (25 ug/L)

Outliers in Data Range: Yes If Yes, Which Samples: SW-11, SW-12, SW-12D

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

NICKEL

Background Samples

Number of Detections: Detected in 4 of 5 locations

Concentration Range: ND to 1.77 J µg/L

Blanks

Nickel was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 16 of 16 locations

Concentration Range: 0.609 J to 10.4 J µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 8

Number of Samples Above Respective NCAC 2B Standard: 0 (88 ug/L)

Outliers in Data Range: Yes If Yes, Which Samples: Leachate, SW-12D

SELENIUM

Background Samples

Number of Detections: Detected in 2 of 5 locations

Concentration Range: ND to 0.599 J µg/L

Blanks

Selenium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 16 locations

Concentration Range: ND to 3.72 J µg/L

Sample Location with Highest Concentration: SW-6

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: 0 (5 ug/L)

Outliers in Data Range: No If Yes, Which Samples: N/A

SILVER

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

Silver was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 2 of 16 locations

Concentration Range: ND to 1.05 J µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 2

Number of Samples Above Respective NCAC 2B Standard: 2 (0.06 ug/L)

Outliers in Data Range: No If Yes, Which Samples: N/A

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

THALLIUM

Background Samples

Number of Detections: Detected in 1 of 5 locations

Concentration Range: ND to 0.096 J µg/L

Blanks

Thallium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 16 locations

Concentration Range: ND to 0.279 J µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: No Standard

Outliers in Data Range: Yes If Yes, Which Samples: Leachate

VANADIUM

Background Samples

Number of Detections: Detected in 4 of 5 locations

Concentration Range: ND to 8.74 µg/L

Blanks

Vanadium was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 15 of 16 locations

Concentration Range: ND to 28 µg/L

Sample Location with Highest Concentration: SW-12D

Number of Samples Above Highest Background Concentration: 2

Number of Samples Above Respective NCAC 2B Standard: No Standard

Outliers in Data Range: Yes If Yes, Which Samples: SW-12D

ZINC

Background Samples

Number of Detections: Detected in 4 of 5 locations

Concentration Range: ND to 11.2 B µg/L

Blanks

Zinc was detected in the method blank for the January 23, 2009 surface water samples.

Assessment Samples

Number of Detections: Detected in 16 of 16 locations

Concentration Range: 4.11 B,J to 148 µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 11

Number of Samples Above Respective NCAC 2B Standard: 3 (50 ug/L)

Outliers in Data Range: Yes If Yes, Which Samples: Leachate

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

VOLATILE ORGANIC COMPOUNDS

ACETONE

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

Acetone was detected in Equipment Blanks and Field Blank at concentrations ranging from 41 J to 59 µg/L.

Assessment Samples

Number of Detections: Detected in 3 of 16 locations

Concentration Range: ND to 65 µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 3

Number of Samples Above Respective NCAC 2B Standard: 2000 µg/L

2-BUTANONE (MEK)

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

2-Butanone was detected in Equipment Blank B at a concentration of 2.7 J µg/L.

Assessment Samples

Number of Detections: Detected in 2 of 16 locations

Concentration Range: ND to 260 µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 2

Number of Samples Above Respective NCAC 2B Standard: 160,000 µg/L

2-HEXANONE

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

2-Hexanone was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 16 locations

Concentration Range: ND to 0.63 J µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: No Standard

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

4-METHYL-2-PENTANONE

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

4-Methyl-2-Pentanone was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 16 locations

Concentration Range: ND to 2.3 J µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: 26,000 µg/L

METHYLENE CHLORIDE

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

Methylene Chloride was not detected in its respective blanks.

Assessment Samples

Number of Detections: Detected in 1 of 16 locations

Concentration Range: ND to 0.66 J µg/L

Sample Location with Highest Concentration: Leachate

Number of Samples Above Highest Background Concentration: 1

Number of Samples Above Respective NCAC 2B Standard: No Standard

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TOLUENE

Background Samples

Number of Detections: Detected in 0 of 5 locations

Blanks

Tolune was detected in Equipment Blank B and the Field Blank at concentrations of 0.76 J and 0.75 J µg/L, respectively.

Assessment Samples

Number of Detections: Detected in 6 of 16 locations

Concentration Range: ND to 8.2 µg/L

Sample Location with Highest Concentration: SW-11

Number of Samples Above Highest Background Concentration: 6

Number of Samples Above Respective NCAC 2B Standard: 0 (11 ug/L)

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

CLASSICAL CHEMISTRY COMPOUNDS

BOD

Background Samples

Concentration Range: ND to 2.4 mg/L

Blanks

BOD was not detected in its respective blanks.

Assessment Samples

Concentration Range: ND to >100 mg/L

COD

Background Samples

Concentration Range: ND to 12 mg/L

Blanks

COD was not detected in its respective blanks.

Assessment Samples

Concentration Range: ND to 450 mg/L

NITRATE/NITRITE

Background Samples

Concentration Range: 0.058 to 0.68 mg/L

Blanks

Nitrate/Nitrite was not detected in its respective blanks.

Assessment Samples

Concentration Range: 0.031 J to 2.8 D mg/L

PHOSPHORUS

Background Samples

Concentration Range: ND to 0.38 mg/L

Blanks

Phosphorus was not detected in its respective blanks.

Assessment Samples

Concentration Range: 0.04 to 0.89 mg/L

DATA SUMMARY

SURFACE WATER SAMPLES

Assessment Samples: Leachate, Discharge, SW-3, SW-4, SW-6, SW-7, SW-8, SW-9, SW-11, SW-12, SW-12D, SW-16, SW-16D, SW-17

Background Samples: SW-1, SW-2, SW-5, SW-14, SW-15

Blanks: (Equipment Blank A, Equipment Blank B, Field Blank, Method Blanks, Trip Blanks)

SULFATE

Background Samples

Concentration Range: 2.4 to 7.4 mg/L

Blanks

Sulfate was detected in the method blanks for the January 19, 2009 surface water samples.

Assessment Samples

Concentration Range: 2.1 J to 16 J mg/L